## PHOENIX COLLEGE 2023-2024

# Catalog\& Handbook 

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## REGISTER TODAY!

Welcome to Phoenix College!
Today you are taking a giant leap toward accomplishing your personal and professional goals. Making the decision to continue your education can feel scary, but it is one of the most impactful decisions you can make in your life.

I love rollercoasters. There is nothing like the experience of waiting patiently for your turn and then getting strapped in for the ride of your life. You start with a slow climb followed by cresting the first peak and then being flung in every direction possible. There are ups and downs and even the terrifying, yet exhilarating, corkscrew that sends you upside down. It takes courage to climb into the seat and brave that ride not knowing exactly where it will take you. It also takes trust in yourself, that you are strong enough to face the fear of the unknown, trust in those around you who are there to make sure your ride is a fun and safe one and trust in the idea that on the other side of that ride, new experiences are waiting for you.

Life is a lot like a rollercoaster and making the decision to pursue a college education can feel like a scary, unknown ride. There will be peaks and valleys and your stomach may even get turned upside down and inside out from time to time. There will be moments where you feel trepidation, joy and terror all at the same time, and hopefully, at the end of the ride you will feel pride at what you accomplished.

When I was a child, I had no idea where my ride would take me or all of the people that would make that ride special. As a foster youth, I felt alone and it seemed like the roller coaster was out of control. But I quickly found that there were people ready to help me along the way. They made sure that as uncertain as the ride was and as many times as I got unexpectedly flipped upside down, I was always secured on my track. I was able to brave the next rollercoaster and challenge ahead of me because of their support. Without that help along the way, I could have never imagined becoming a college president.

You are joining a college with a legacy of dedicated students who have been overcoming their fears for 103 years. Our world-class faculty and our committed Student Affairs and Administrative Services staff are here to ensure that you accomplish your goals.

Our college was founded on the premise that every individual deserves access to a premiere education. We remain committed to the goal of helping all students achieve their academic goals and today Phoenix College is a proud Hispanic Serving and Minority Serving Institution.
Whether you are new to college or are returning, if you plan on completing a degree, a certificate, transferring to a four-year university or are just taking classes for personal enrichment our outstanding faculty and staff are here to support you on the ride. Today is the beginning of one of the most exciting adventures of your life. Thank you for letting us be a part of your journey.

Best Wishes,


Kimberly Britt, Ph.D.
President
Phoenix College
kimberly.britt@phoenixcollege.edu

## Vision

A diverse, evolving community working together to advance equity and ensure learning so that everyone achieves their dreams.

## Mission Statement

Phoenix College delivers a quality education that cultivates multicultural understanding and critical thinking skills as we provide the personalized support, care, and learning experiences needed for students to reach their goals.

## Core Values

We recognize that what we do is as important as how we do it Our core values serve to guide our work to advance the mission and fulfill the vision of Phoenix College. We hold ourselves and one another accountable to embody our core values through our actions. What we say, do, decide, and dedicate resources to will reflect our commitment to our six shared values.

Collaboration: We do our best work together. We honor our diversity and uniqueness through inclusivity and respectful engagement as we share in decision-making and work together to achieve our goals.

Community: We build connection and trust. We behave with integrity, celebrate our diversity, actively listen to, and support one another.

Equity: We take responsibility to uncover, deconstruct, and remove barriers to access and success. We commit to intentional development of fair, just processes and support structures, as well as the ongoing selfexamination and active listening needed to advance equity within the PC community.

Integrity: We do what is right, even in the face of opposition or challenges. We follow through on our commitments, practice transparency, and prioritize our shared goals.

Leadership: We lead with courage. We practice ongoing reflection and continuous improvement as we challenge the status quo in pursuit of equitable outcomes and institutional Excellence.

Responsibility: We take ownership over our collective success. We hold ourselves and one another accountable for taking action in service of our goals.

## Accreditation

Phoenix College, one of ten Maricopa Community Colleges, is accredited by:
The Higher Learning Commission of the North Central Association of Colleges and Schools, Commission on Institutions of Higher Education, 230 S. LaSalle Street, Suite 7-500, Chicago, IL 60604-1411, 800 . 621.7440 or 312.263 .0456

Some of Phoenix College's programs are also accredited and/or approved by the agencies listed below:
The American Bar Association (ABA), Standing Committee on Paralegals, 321 N. Clark St, 19th Floor Chicago, IL 60654-7598

The American Dental Association's Commission on Dental Accreditation, 211 E. Chicago Ave, Suite 1900
Chicago, IL 60611-2637
The Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) 233 N. Michigan Avenue, 21st Floor Chicago, IL 60601-5800

National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)
5600 N. River Road, Suite 720
Rosemont, IL 60018
(773) 714-8880
www naacls.org
Accreditation Commission for Education in Nursing (ACEN) 3390 Peachtree Road NE, Suite 1400 Atlanta, GA 30326


# MARICOPA COUNTY COMMUNITY COLLEGE DISTRICT 2023-2024 ACADEMIC CALENDAR 

Dates are subject to change*<br>The most up to date calendar information can be found at<br>https://district.maricopa.edu/regulations/admin-regs/section-2/academic-calendars

Colleges may modify start dates in order to meet special needs. Dates listed below which are directly related to instruction refer to the traditional academic year model. Some courses may be offered over time-periods for which these dates are not applicable. Links to ASU, GCU, NAU, and U of A calendars incorporated on last page for reference only and are subject to change without notice.

| SUMMER | MESTER - 2023 | Note: Subject to the 2023-2024 Catalog |
| :---: | :---: | :---: |
| Mon | May 15 | Final Grades Due for Spring 2023 Semester |
| Mon | May 22 | Tuition Due for Summer 2023 Semester |
| Mon | May 29 | Memorial Day (Colleges Closed) |
| Tues | May 30 | Summer Semester Begins |
| Mon | Jun 19 | Juneteenth National Independence Day (Colleges Closed) |
| Mon-Sat | Jul 3-8 | Summer Break for Clock Hour Programs Only |
| Tues | Jul 4 | Independence Day (Colleges Closed) |
| Thu | Aug 3 | Summer Semester Ends |
| Mon | Aug 7 | Final Grades Due for Summer 2023 Semester |


| FALL SEMESTER - 2023 |  |  |
| :--- | :--- | :--- |
| Wed | Aug 9 | Tuition Due for Fall 2023 Semester |
| Fri | Aug 11 | First Day of Faculty Accountability |
| Sat | Aug 19 | Classes Begin |
| Mon | Sep 4 | Labor Day (Colleges Closed) |
| Mon | Sep 18 | Find a Class Opens for Spring 2024 |
| Mon | Oct 2 | Spring 2024 Priority Registration for Currently Enrolled Students |
| Sat+ | Oct 7 | Last Day for Withdrawal without Instructor's Signature |
| Mon++ | Oct 9 | Student Withdrawal with Instructor's Signature Begins |
| Mon | Oct 9 | Spring 2024 Open Registration Begins |
| * |  | Application for December 2023 Graduation |
| Fri | Nov 10 | Observance of Veterans Day (Colleges Closed) |
| Thu-Sun | Nov 23-26 | Thanksgiving Day Holiday (Colleges Closed) |
| Sun | Dec 10 | Last Day of Regular Classes |
| Mon-Fri** | Dec 11-15 | Final Exams Week |
| Fri | Dec 15 | Fall Semester Ends (Last day of Faculty Accountability) |
| Sat | Dec 16 | Mid-Year Recess Begins for Students |
| Mon | Dec 18 | Final Grades Due for Fall 2023 Semester |
| Sat-Mon | Dec 23-Jan 1 | Mid-Year Recess (Colleges Closed) |



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## College Information



PHOENIX COLLEGE
A MARICOPA COMMUNITY COLLEGE

## Academic Advisement

602.285.7777
https://www.phoenixcollege.edu/students/advisement
Academic advising at Phoenix College is dedicated to teaching students how to get the most out of their college education. Our team of faculty and professional advisors support students in:

- finding a certificate or degree program that suits their goals,
- mapping out a personalized educational plan outlining the classes needed to reach those goals,
- making good course selections to stay on track to completion, and
- exploring university transfer options

For more information, visit us in the Hannelly Center

## Accident Insurance

### 602.285.7231

https://www.phoenixcollege.edu/students/ student-life/student-resources
The following is a brief summary of our student insurance plans. The master policies contain complete details of the provisions, limitations, and exclusions and will prevail at all times. Education is expensive - and so are accidents. To protect students against the financial burden of medical expenses resulting from an accident, the Maricopa County Community College District (MCCCD) provides its students with Student Accident Insurance. Every MCCCD student is automatically insured and the cost for the insurance is covered in the student-activity fee.

- Coverage applies only to College-related accidents.
- Coverage applies to students registered in day or evening classes and who are enrolled in an approved credit or non-credit class at any of the Maricopa Community Colleges.

Description of coverage
This plan covers accidents on an excess insurance basis occurring only while the eligible student is:

1. Attending class during the hours when college is in session;
2. Traveling for regular class sessions, directly to or from home and college other than by motorized vehicle but not longer than one hour before class commences or one hour after class is dismissed or for the time required when traveling in a vehicle authorized and furnished by the college. No coverage is provided for any motorized vehicle not supervised and provided by the College/MCCCD;
3. Participating in or attending an activity exclusively sponsored, calendared and supervised by the College; traveling to and from the activity in an authorized vehicle.

All injuries should be reported immediately to the College Safety Office, (602) 285-7911. When an accident or injury occurs, the student and advisor or sponsor should initiate the proper claim forms through the Office of Student Life and Leadership. For any questions or concerns regarding student accident/health insurance, please visit: https://business.maricopa.edu/riskmanagement/insurance/ student-insurance-plans

## Admissions, Records and Registration <br> 602.285 .7777

ar@phoenixcollege.edu
https://www.phoenixcollege.edu/become-student/admissions-and-records
Admissions, Records and Registration is located in the One-Stop Enrollment Center within the Hannelly Center Building. Information and services are provided for the following: admissions, registration, athletic eligibility, international education, enrollment verification, graduation, refunds, residency, schedule changes, grades, and transcripts. A photo ID is required for all inperson transactions. Email for more information:

- General Questions: ar@ phoenixcollege.edu Graduation: pcgraduation@phoenixcollege.edu Transcripts: transcripts@ phoenixcollege.edu
- Online Chat Email: pc-admissions-chat@phoenixcollege.edu
- Chat With Us Online: https://www.phoenixcollege.edu/chat Qless: https://www.phoenixcollege.edu/qless


## Adult Education - GED® Test Preparation and English Language Classes

### 480.517.8110

gedinfo @ riosalado.edu www.riosalado.edu/abe

Rio Salado College provides programming to help nontraditional students gain basic skills and literacy with a bridge to college and career. Students can learn the English language, prepare for GED® tests, get workforce preparation and employment skills training, take industry-specific workforce training classes, and get help transitioning to college.

## GED® Test Preparation Classes:

Classes for students who did not complete high school and for high school graduates who need to review basic reading, writing, and math skills.

## English Language Classes:

Classes for non-native English speakers that focus on reading, writing, listening, and speaking the English language.

Industry-Specific Workforce Training:
Students enrolled in GED® test preparation and English language classes also have the opportunity to engage in workforce preparation, employment skills training, and industry-specific training courses in:

- Applied Technology
- Business, Entrepreneurialism, and Management
- Computer and Information Technology
- Health Sciences

GED® test preparation and English language classes are taught at six community-based locations across Maricopa County and virtually in a live online format to meet students' needs.

1. RSC Avondale: 420 N. Central Avenue Avondale, AZ 85323
2. RSC Downtown: 619 N. 7th Avenue Phoenix, AZ 85007
3. RSC Northern: 1715 W. Northern Avenue Phoenix, AZ 85021
4. RSC Southern: 3320 S. Price Road Tempe, AZ 85282
5. RSC Surprise: 12535 W. Smokey Drive Surprise, AZ 85378
6. RSC Thomas: 3631 W. Thomas Road Phoenix, AZ 85019

## Alumni and Development, Office of / Phoenix College Alumni Association (PCAA)

 $\mathbf{6 0 2 . 2 8 5 . 7 6 6 7}$ or $\mathbf{6 0 2 . 2 8 5 . 7 6 5 2}$ or $\mathbf{6 0 2 . 2 8 5 . 7 3 3 7}$https://www.phoenixcollege.edu/alumni
The Office of Alumni and Development is located in the Bob Howell Alumni Center - at the Osborn Site / OSE 106 (north of Flower Street between 10th and 11th Avenue). The Alumni Center is home to the Phoenix College Alumni Association (PCAA) and houses PC's alumni archives. The mission of the PCAA is Building a Strong Foundation of Support for Phoenix College by:

- Providing Fellowship Opportunities for Alumni
- Connecting Phoenix College with the Community
- Bringing College and Alumni History Alive
- Identifying and Celebrating PC History Makers
- Serving as Mentors and Leaders to Students
- Providing Scholarship Opportunities for Students
- Engaging Students to Foster a Deep Connection with Phoenix College

The PCAA provides volunteer opportunities for alumni to stay connected with the college through various programs and activities including mentoring, special events, fundraising for student scholarships, and more. The PCAA is responsible for planning signature events such as the Alumni Hall of Fame and the Half- Century Luncheon and Reunion, which celebrates alumni who graduated from or attended Phoenix College fifty or more years ago. Volunteers are the lifeblood of the PCAA, and alumni are encouraged to become involved. Membership in the Alumni Association is free. For more information, please contact the office, visit the "Alumni" Web site at the Web address listed above, or find us on Facebook at Phoenix College Alumni Association. The Alumni \& Development Office facilitates development and fundraising for the college. Phoenix College is fortunate to have the support of countless donors who generously contribute to scholarships and programs. If you are interested in making a contribution to Phoenix College in support of scholarships or programs, or you want to learn about current giving opportunities and areas of need as identified by the college, please contact our office. Phoenix College is affiliated with the Maricopa Colleges Foundation (MCCF), a 501(c)(3) corporation, for the purposes of receiving charitable contributions. Gifts made to MCCF on behalf of Phoenix College are taxdeductible. Information is available by visiting the Alumni Web site, or phoenixcollege.edu/waystogive.

Athletics<br>602.285.7175<br>https://athletics.phoenixcollege.edu

The Phoenix College Athletics Department offers qualified students the opportunity to compete in intercollegiate athletic competition in the following sports: Men's and Women's Basketball, Baseball, Soccer, Women's Fast Pitch Softball, and Women's Volleyball.

## Bookstore

602.285.7489
www.phoenixcollegeshop.com
On your college adventure, you'll need support -- from your family, your professors, and your fellow students. You'll also need a place you can trust to have the right stuff at the right time -- the course materials and supplies you need to succeed. With a team of experts, our goal is to ensure you have access to all the tools you need to make the most of your time at Phoenix College. We're on campus, located in the HB building, or you can shop www.phoenixcollegeshop.com for the largest inventory of textbooks and get the same topnotch customer support.

## RENTAL

We know that going to college costs more than ever before and books are big-ticket items. To help ease the burden, we offer you the option to rent your textbooks. Renting your textbooks offers you the lowest up-front cost while still allowing you to use your textbook like you always would. (Highlighting and notes are normal!) Just look for the "Rent-A-Text" logo either on the Bookstore's shelves or web page to see if your books are available for rent.

## DIGITAL

The Phoenix College Bookstore offers more digital course materials choices than ever before! From digital textbooks and study guides to complete digital learning environments, we offer course materials to suit your unique learning style. Almost all digital textbooks include built-in study features such as searchable text, highlighting and note-taking. Some even offer social learning capabilities that allow you to interact with your classmates and teachers within the text itself.

## PAYMENT

The Bookstore accepts cash and most major credit cards, including VISA, MasterCard, American Express, and Discover. Imprinted personal checks issued from Arizona banking institutions can be made out to the Phoenix College Bookstore and will be accepted with two forms of photo identification.

## REFUND POLICY

Refunds are given with a valid sales receipt if the merchandise is in the original sale condition, including shrink wrap if applicable. Course materials may be returned for a full refund within one week of the official start of the semester, or within 2 days of purchase thereafter.

No refunds or exchanges will be given for course materials purchased during the last week of classes or during examination periods. All non-course material items may be returned for a full refund within ten days from the original purchase date with a valid receipt.

## BUYBACK POLICY

Cash is paid for used books throughout the year. Book value depends on future class usage on the Phoenix College campus and bookstore inventory levels at the time of buyback transaction. We recommend selling back your textbooks right after your finals are over to ensure you get top dollar. A student ID is required to sell back books.

## Cafeteria - The 'Bear Cave' Café

https://www.phoenixcollege.edu/dining/bear-cave-cafe
Offers a wonderful variety of dining selections; provides catering services for the campus. Located at the north end of the Hannelly Center.

## Career Services

### 602.285 .7420

https://www.phoenixcollege.edu/careerservices
Careful, purposeful career planning is critical to a successful and satisfying future. Career Services provides encouragement and guidance to students in the various stages of this journey with quality, comprehensive services to explore options based on your unique interests, abilities, and goals. We also offer expert services for finding employment.

## Looking for a job?

- Referral to jobs-connect with employers on-campus (Federal Work Study) and in the community
- Resume and cover letters-learn how to write attention-getting results
- Interviewing skills-greatly reduce your stress and practice interview questions, personal presentation and see how you can improve
- Be strategic-learn where the best places are to find the job you want, including effective use of career fairs and social media, such as LinkedIn, Twitter, Facebook, etc.


## Undecided about your career or major?

- Get to know who you are-take free user-friendly inventories designed to identify your career options based on your personality, interests, and abilities
- Explore the possibilities-learn about all the different paths your major can take you
- Learn about occupational information, employment trends/labor market information, wages, employers, industries, what employers are seeking, etc.
- Identify your career goal and path
- Make a plan of action and work your plan


## Enhance your employment options, build your experiences

- Internships-investigate the possibilities, experience the world of work, and start networking and finding mentors, and possibly gain academic credit
- Volunteer opportunities - serve others, gain experience, and keep your resume fresh, develop connections
- Job shadowing-gain comprehensive knowledge about the daily activities of an employee
- Networking-actively build and maintain bridges, establish connections, and open doors through developing relationships with a variety of contacts

Serving prospective and current students, faculty, staff and employer partners, Career Services offers a broad range of services and resources, including a state-of-the art computer lab. Visit us in the Hannelly Center, and the Virtual Career Center at https:// www.phoenixcollege.edu/careerservices

## Career Services Virtual Office

Career Services is happy to announce our "VIRTUAL OFFICE": Monday - Friday
10am - 4pm
NO APPOINTMENTS NECESSARY! Join us virtually at: http://meet. google.com/kai-oijm-rkm
BE ADVISED, on some days the virtual office may not be available. If this is the case, email us with a brief note on the service you are requesting at: pc-career-services@ phoenixcollege.edu and we will contact you as soon as possible.

## Child Care <br> (602.560.0000)

https://www.phoenixcollege.edu/current-students/support- services/child-care
https://www.swhd.org/programs/head-start/
Southwest Human Development provides Early Head Start and Head Start early childhood education programs for children of Phoenix College students. The programs include classrooms for infants, toddlers and preschoolers, up to age 5.

Extended programs hours are provided during the fall, spring and summer Phoenix College academic semesters, and DES child care subsidy is accepted as a form of payment for this program option.
For questions or enrollment information, please contact Southwest Human Development at (602) 560-0000 or visit swhd.org/HeadStart today!

## College Police (Public Safety)

Emergency: (480.784.0911) (for in-progress and medical emergencies)
Non-Emergency: (480.784.0900) (for requests to unlock doors, delayed reporting)
Campus Business: (602.285.7254) (for parking decals, etc.)
Email: dl-pc-safety @phoenix college.edu
Safety tip: Download the Rave Guardian app:
www.phoenixcollege.edu/raveguardian
Report crimes, accident, injury or any suspicious activity occurring on the Phoenix College campus to College Police. Vehicle parking decals (see following item \#1) are required and are available at the College Police Office from 7:00 a.m. to 11:00 p.m., Monday through Saturday. There is no fee for parking decals.

## Lost and Found

Articles found on the campus and left with College Police will be held at least 30 days, during which time they may be claimed by the owner at the College Police Office.

## Parking and Traffic Regulations

Regulations governing motor vehicles operated by students of Phoenix College shall be under the jurisdiction of the administration of the college. All State and college traffic and parking regulations must be observed at all times.

All students are required to comply with the parking policies and regulations as established by the college. It is the responsibility of the student to become acquainted with and to adhere to the following parking regulations:

1. All faculty, staff members and students are required to obtain a proper parking decal from the College Police Office. To obtain a decal, you must provide a valid vehicle registration and faculty, staff or student identification. Any vehicle parked in a faculty, staff or student parking space without a proper decal may be issued a citation.
2. All students, staff and faculty will park their cars in designated parking areas. Student parking spaces are identified by white painted lines; yellow-lined spaces are reserved for faculty and staff.
3. Students will comply with all local and state traffic regulations at all times. College Police Officers will issue citations to drivers disobeying stop signs or driving at an excessive speed on campus property. Vehicles will yield to pedestrians and bicycles at all times.
4. Students are not allowed to park in any space not designated for student parking. The following areas are available for student parking:
a. Lots along 15th Avenue, except restricted areas.
b. Lot at 15 th Avenue and Thomas, except restricted areas.
c. Lot at 11th Avenue and Flower, except restricted areas.
d. Curbs that border Phoenix College property, except restricted areas.
e. Lot at 11th Avenue and Osborn, except restricted areas.
f. All bicycles must be locked to bike racks situated at various locations on campus.

Riding a bicycle on campus is prohibited. Bicycle operators are asked, therefore, to walk their bicycles to the bike rack. Bicycles parked illegally or attached to trees, doors, poles, etc., may be impounded by College Police personnel and a citation issued.
5. Any car parked in such a manner as to obstruct traffic will be subject to removal by College Police and the driver will be cited.
6. College Police Officers have access to a list of all license plates issued by the State of Arizona and are able to identify each car driven on campus.
7. All citations are entered into a computer and kept on file. All outstanding citations at the end of the semester will be traced to the violator and that student's transcripts will be held pending payment of all fines and late charges.

## Violations \& Penalties <br> FOR A COMPLETE LISTING OF PARKING VIOLATIONS AND PENALTIES, SEE PARKING FINES

Please note the following cautions:

1. Vehicles parked in handicapped spaces are required to have Handicapped plates or the handicapped placard properly displayed. Vehicles without a valid permit, or that have an improperly displayed placard, will receive a $\$ 50.00$ penalty and may be subject to towing, at the owner's expense. The Placard is issued to an individual and is not transferable. Handicap placard owners need to ensure that they are current to avoid being cited.
2. All penalties not paid within fifteen working days will be doubled.
3. All traffic accidents are to be immediately reported to College Police.
4. Vehicles parked in violation of parking regulations may be towed away at the owner's expense.
5. Abandoned vehicles may be towed away after 72 hours.

## Counseling Department

(602.285.7392)
https://www.phoenixcollege.edu/students/counseling
The Counseling Department's primary purpose is to assist students in achieving their personal, academic, and career goals. Appointments are available for students who would like to meet with a counseling faculty member. Walk-ins are also welcome. The Counseling Department is located on the lower level of the HC (Hannelly Center) building.

## Services

- Assist you to explore career options, choose or change majors, and develop skills for career advancement.
- Identify strategies to balance school, work, and social life.
- Offer classes to guide you in accomplishing your personal, educational, and career goals.
- Connect you to campus and community resources.


## Resources Available

- Career assessments, information, and exploration
- Information about and referral to community resources
- Resources to assist you with study skills and strategies on time management, test taking, note taking, handling stress, and much more.
- Financial planning


## Delivery of Instruction

Phoenix College offers a wide variety of classes in many subjects and also provides a choice of different levels, formats, and types of classes to fit your schedule, learning style, and lifestyle. Visit the Types of Classes page for more options: https://www.phoenixcollege.edu/academics/types-classes

HONORS - The Honors Program is designed to enhance the intellectual experience of students through enrollment in Honors courses, independent study options, and increased contact with Honors students at Phoenix College and within the Maricopa District. Students who have met the Honors Program requirements are eligible to enroll in honors classes and require written approval from the Honors Program Office.

There are two different types of classes that you can take as an Honors student. The first type of class is the Honors Program Section. These classes are offered concurrently within a regular section but include additional honors project requirements. Your instructor will provide you the opportunity to design an honors project that will enable you to critically think through the course subject matter. The second type is the Honors Only Cohort class which is comprised only of Honors students. Participating in an Honors Only Cohort class provides a sense of community, encourages independent learning, and helps develop leadership skills. For more information, please contact the Honors Program Office at 602.285.7305.

HYBRID - Hybrid courses offer a combination of in-person classroom instruction with an online component which enables you to limit the amount of on-campus class activity, saving you commute time and money, giving you an opportunity to balance your work/life responsibilities, and even helping out the environment by minimizing the miles you drive. This format does not reduce the amount of student work or effort required to succeed in the course. For example, in a 3-credit course, students spend 1 hour 15 minutes each week focusing on in-person, experiential learning and clarification of concepts. Students spend the remaining time working online to complete class assignments, participate in online discussions, and reviewing online materials.

FLEX-START - Jump in anytime! No more waiting until a new semester begins to start college. FlexStart classes provide a great opportunity to begin classes after a semester begins.

INTERNET - In Internet courses, all activities are done online; there are no classroom meetings. Online courses are designed for motivated, self-disciplined, technology-literate students. Communication will be through email, and reliable Web access is needed. Exams may be delivered online, or may require on-site attendance. Due to the changing nature of technology training, always check with an academic advisor for the most current requirements for your program of study. This format does not reduce the amount of student work or effort required to succeed in the course. Online classes are delivered through Learning Management Systems such as CANVAS. *Please note that all Online classes start on a Monday.

## Disability Resources and Services (DRS) <br> 602.285.7477

https://www.phoenixcollege.edu/current-students/support-services/disability-services
Disability Resources and Services provides student support services for registered students with a disability. To receive services, students must register with Disability Resources and Services and provide appropriate documentation supporting reasonable requested accommodations (please call or visit the website for any questions regarding documentation). The staff in Disability Resources and Services assists students with disabilities in most aspects of their education at Phoenix College, such as general advisement and registration assistance. Services available for students with a disability may include providing access to notetakers, readers, scribes, extended testing times, American Sign Language (ASL) interpreters, and adaptive technology. All services are determined on a case-by-case basis each semester.

DRS is located on the first floor of the Hannelly Center. For more information, visit www.phoenixcollege.edu

## Discrimination Complaint

602.285.7228
https://www.maricopa.edu/legal/harassment/ dcpstudent.htm

## ND-2 Discrimination Complaint Procedures for Students

I. This procedure provides for the prompt and equitable resolution of discrimination and harassment complaints brought by students against a member of the college community that is based on membership in a "protected class/category" (not otherwise addressed in the Title IX Sexual Misconduct Policy).

1. Complaints may be brought under this procedure for discrimination based on membership in a protected group: race, color, religion, national origin, citizenship status (including document abuse), sex (including pregnancy and sexual harassment), (not including those cases under the Title IX Policy Jurisdiction), sexual orientation, gender identity, age, veteran status, physical or mental disability, or genetic information.
2. All members of the college community should act promptly upon receipt of an allegation of conduct that might constitute harassment and/or discrimination. Any member of the college community should refer a person who might be a victim of such conduct to the college's equal opportunity \& Title IX Regional Director [Regional Director] (or designee) or to the district's Title IX, ADA/504 Coordinator who are both responsible for resolving complaints of unlawful harassment/discrimination.
3. Students who believe they are experiencing sexual harassment in violation of Title IX should submit a written complaint under Administrative Regulation 5.1.16, Title IX Sexual Harassment Policy.
4. Students who wish to file a complaint related to disability accommodations should first exhaust the remedies outlined under A.R. 2.8 Students with Disabilities.
5. Students who feel they have been treated unfairly or unjustly by a faculty member regarding instruction or a grade not involving discrimination based on membership in a protected group (as outlined above) should utilize the S-6 Instructional Grievance Process.
II. College officials should take all necessary steps to ensure the prompt and equitable resolution of any complaint of harassment/discrimination. The typical time period to resolve allegations under this policy is sixty (60) business days. MCCCD will make a good faith effort to complete the resolution process within this period. Any extenuating circumstances that extend this time period will be communicated to the complainant and respondent and noted in the investigative file.
6. The term 'Complainant" refers to an individual who has experienced the alleged prohibited conduct. Only the person who has experienced the alleged prohibited conduct may file a complaint under this policy. The term "Respondent" refers to an individual who has been accused of engaging in prohibited conduct.
7. The written complaint must identify the action, decision, conduct, or basis that the student believes constitutes prohibited discrimination or harassment. If the complaint does not contain the above-referenced information, the Regional Title IX Director or district Title IX, ADA/504 Coordinator will request clarification.
8. Every effort will be made to address the complaint consistent with the complainant's desires. However, under certain circumstances, the MCCCD may have a legal obligation to identify and remedy discrimination or harassment, irrespective of whether a formal complaint is actually filed and even if the complainant would prefer no action be taken.

## III. Optional Informal Resolution of Discrimination Complaints

1. Before filing a formal complaint under this procedure, the student may attempt to resolve the problem through informal discussions with the respondent. Students are not required to use the informal resolution process before filing a formal complaint.
2. The student should work with the Regional Director to schedule and facilitate the informal resolution meeting.
3. The informal resolution process consists of: a) the discussion between parties regarding the allegations, b) the response to the allegations, and $\mathbf{c}$ ) a written resolution agreement between the parties as to the disposition of the allegations. The Regional Director shall be involved with the drafting of the written resolution agreement.
4. Both parties must sign the written resolution agreement in order to deem the matter closed.
5. There is no appeal to the informal resolution process. The Regional Director is charged with ensuring the disposition (and any actions stated therein) is completed.
6. At any time before the signing of the resolution agreement, the student can end the informal process and initiate the formal process.
7. If the complaint cannot be informally resolved to the satisfaction of the student, the student has the right to file a formal complaint and to proceed under the formal resolution procedures.

## IV. Formal Resolution of Discrimination Complaints

1. A student who contends that unlawful or MCCCD-prohibited discrimination has occurred may file a formal complaint by contacting the Regional Director at each respective college or center or the district's Title IX, ADA/504 Coordinator if the respondent is a district office employee.
2. A formal complaint is a signed and dated document submitted by the complainant (an email from the student will suffice) alleging a policy violation by a respondent, a summary of allegations, and requesting that the MCCCD investigate the allegation(s).
3. The formal process consists of a signed complaint, preliminary assessment, an investigation, a determination regarding the allegation, appropriate corrective action or sanctions when the complaint is substantiated, and an offered appeal process.
4. Upon receipt of a formal complaint of discrimination or harassment, the Regional Director shall conduct a preliminary assessment to determine whether, if substantiated, the behavior or conduct
reported would constitute a violation of MCCCD policy. The Regional Director has sole discretion to determine whether further investigation is necessary in any particular case. In circumstances where a complaint will not be investigated, the complaint will be notified.
5. Following the determination that an investigation should take place, the Regional Director shall appoint two (2) trained investigators to investigate the allegations. The complainant, respondent and/or investigators shall disclose any potential conflicts of interest or bias regarding the complaint to the Regional Director.
6. Regional Director will provide written notice of allegations (the "NOA") to the respondent upon commencement of the formal resolution process. The NOA will include: a) a summary of all allegations, b) specific policies implicated, $\mathbf{c}$ ) a statement of the potential sanctions/corrective actions that could result, d) a statement that the applicable evidentiary standard is a preponderance of the evidence, e) a statement that the MCCCD presumes the respondent is not responsible for the reported misconduct unless and until the evidence supports a determination of a policy violation, $\mathbf{f}$ ) the name(s) of the assigned investigator(s), $\mathbf{g}$ ) detail on how the party may request disability accommodations during the interview process, $\mathbf{h}$ ) a statement about MCCCD's policy on retaliation, and i) an instruction to preserve any evidence that is directly related to the allegations.
7. Amendments and updates to the NOA may be made as the investigation progresses and more information becomes available. Notice is presumed to have been given upon emailing the NOA to the respondent's MCCCD-owned email address.
8. The investigators shall review all information provided to the Regional Director and will interview individuals who potentially possess relevant evidence as identified by the parties and determined by the investigators. The investigators shall focus on the allegation(s) of policy violation, assess the relevance of witnesses and evidence, and work efficiently to conclude the investigation promptly (within 60 business days), as outlined in this procedure. The investigators shall deliver to the Regional Director the investigation report, which shall include: a) a summary of the allegations, $\mathbf{b}$ ) a written determination (including rationale) regarding the allegation and whether a policy violation is substantiated or unsubstantiated, and, c) any recommendation(s) addressing substantiated findings.
9. Within ten (10) business days following receipt of the results of the investigation the Regional Director will accept or recommend further investigation. The Regional Director will provide a written notification of the investigation outcome simultaneously to the complainant and respondent. This outcome notification will include a summary of the investigator's written findings.

## V. Sanctions and Corrective Action

1. The Vice President of Student Affairs will implement student sanctions as appropriate under A.R. 2.5 Student Rights and Responsibilities Policy. If the respondent is an employee, the Vice President of Student Affairs will report the findings of fact and policy conclusions to the college or District Human Resources who will issue appropriate disciplinary sanctions or corrective action.
2. MCCCD has clear policy goals to prevent and correct discrimination or harassment, therefore, possible sanctions include, but are not limited to: written warning, counseling, suspension, transfer, mandatory training, or dismissal of the respondent. As appropriate to remedy the effects of policy violations, action on behalf of complainants, such as employee assistance, professional counseling, voluntary transfer, etc., may also be offered. The institution will take appropriate steps to prevent further occurrences.

## VI. Supportive Measures

For any allegation of unlawful discrimination, the MCCCD may provide supportive measures to assist or protect the parties during the pendency of the investigation. Such measures may include academic adjustments, arranging for changes in class schedules, or other appropriate temporary measures.

## VII. Appeal Right

1. A complainant or respondent who is not satisfied with the outcome has five (5) business days to submit an appeal of the decision, in writing, to the College President. If a conflict of interest prevents the College President from serving as the appeal officer, then the district Provost shall serve as the appeal officer. For respondents who are district office employees, the Provost shall serve as the appeal officer. If the Provost has a conflict of interest, a College President may serve as the appeal officer. Conflicts of interest requiring a change of appeal officer shall be communicated to the requesting party.

Grounds for Appeal. Appeals are limited under the following grounds: a) Procedural irregularity that affected the outcome of the matter; OR, b) New evidence that was not reasonably available at the time the determination regarding responsibility or dismissal was made that could affect the outcome of the matter.
2. The appeal request must state the grounds for appeal and why the complainant or respondent believes the outcome was improper.
3. Denials based on lack of grounds shall be communicated to the requesting party within five (5) business days of the request for appeal being received by the appeal officer.
4. If any grounds for appeal are met, the appeal officer will review the results of the investigation and written findings and respond to the request within ten (10) business days from receipt of the request. The ten-day review and response period may be extended for extenuating circumstances, with notice to all parties. The appeal officer may accept, reject, or modify the investigatory outcome. If the appeal officer determines that it is necessary to remedy a substantial deficiency caused by one of the appeal grounds above, the case file will be reopened and assigned for further investigation. If necessary, other investigator(s) may be assigned. If the appeal officer determines that the investigation was thorough and complete and that the decision is supported by the evidence, the appeal officer will affirm the investigation outcome. At this point, the student has exhausted the Discrimination Complaint Procedure for Students.

## VIII. Maintenance of Documentation

Documentation resulting from each level in the Formal Resolution Process (including witness statements, investigative notes, etc.) will be maintained in accordance with state and MCCCD document retention guidelines, A.R. 4.15 Retrieval, Disclosure and Retention of Records.

## IX. Confidentiality of Proceedings

Every effort will be made by the college and MCCCD to protect the confidentiality of the parties during the processing of complaints under this procedure. Records will be maintained in a confidential manner to the extent permitted by law and insofar as they do not interfere with MCCCD's legal obligation to investigate and resolve issues of discrimination.

## X. Retaliation Prohibited

Retaliation against a person who has filed a complaint or against any witness questioned during an investigation is strictly prohibited. Any retaliatory action by instructors, supervisors, managers, academic professionals, administrators, or other employees who have the authority to take adverse action against a complainant or witness is prohibited and may be grounds for disciplinary action. As
per A.R. 5.1.15 Retaliation Prohibited, "MCCCD strictly prohibits an adverse action that might deter a reasonable person from participating in activity protected by antidiscrimination laws."

## XI. False Statements Prohibited

Any individual who knowingly provides false information pursuant to filing a discrimination charge or during the investigation of a discrimination charge will be subject to appropriate discipline under the Student Conduct Code or appropriate employee Administrative Regulation.

## External Filing of Discrimination Complaint

MCCCD encourages students to use the MCCCD Discrimination Complaint Procedure for Students to resolve discrimination concerns. Students also have the right to file civil rights complaints with appropriate external agencies. No retaliation will be taken against a person for filing a complaint with an external agency. The following agency accepts discrimination charges filed by, or on behalf of, students:
Office for Civil Rights, Region VIII (OCR) Denver Office
U.S. Department of Education Federal Building

1244 Speer Boulevard, Suite 310
Denver, Colorado 80204-3582
Phone: 303-844-5695
Fax: 303-844-4303
TDD: 303-844-3417
E-mail: OCR_Denver@ed.gov
AMENDED through the Administrative Regulation Approval Process, June 12, 2023

## Dress Code

## (602.285.7228)

https://www.phoenixcollege.edu
State Health Department laws and college policy require that all students wear shoes and a shirt in addition to other apparel. Dress codes in individual departments/programs, not limited to, Fitness Center, Massage Therapy Program, Health Enhancement, Dental Hygiene, Health Information Technologies, etc., will be enforced by the department chair and/or appropriate administrator.

## Early College Programs <br> (602.285.7743)

earlycollege@phoenixcollege.edu
The Early College Programs are designed to help prepare high school students for college by providing college preparatory advising and academic support. The programs offered are ACE (Achieving a College Education), the Hoop of Learning (HOL) and Dual Enrollment.

## Achieving a College Education (ACE) Program

The Achieving a College Education Program (ACE) is a nationally recognized program designed to help at-risk students obtain a college education. This program is specifically designed to help
students make a smooth transition from high school to an accredited community college, then move on to a university in order to complete a bachelor's degree.

## ACE Program Highlights

- The ACE Program recruits high school students in their sophomore year to participate in the program in their high school junior and senior years.
- ACE students are enrolled in college courses while in high school.
- Students attend college classes on the Phoenix College campus during the summer and on Saturdays during the fall and spring semester.
- Students can earn up to 24 college credits by the time they graduate from high school.


## Program Structure

During the summer between sophomore and junior year, a student takes college classes totaling six credit hours. During the fall and spring semesters a student takes one Saturday class totaling three credit hours. The cycle repeats again starting the summer between the junior and senior year of high school. Students participate in the program as a cohort. Students and their families participate in an orientation and a series of ongoing activities and events, such as financial aid and career workshops, designed to keep them informed and connected throughout the two years.

The ACE cycle takes two years and integrates the nine essential elements: Academic Advising, Assessment, Career Exploration, College Preparation and Application Assistance, Enrichment Seminars, Financial Aid and Scholarship Workshops, Mentoring Parent/Guardian Workshops, Summer and University Bridge Programs and Tutoring and Study Skills Workshops.

## Hoop of Learning Program

The Hoop of Learning Program at Phoenix College is designed to provide Native American high school students the opportunity to earn college credit while still in high school. The program offers cultural courses, support for academic achievement, community connection, financial assistance and leadership.
The program will guide students through the college process and provide them with support services to ensure academic success. The program structure includes general education offerings, courses in American Indian Studies, and many other career exploration courses. Participants in this program will have the opportunity to build relationships with other students, staff, and faculty. Program Goals

- Increase high school retention and graduation rates.
- Increase Native American enrollment and participation in college.
- Empower Native American students to reach their goals.
- Enhance Native American culturally relevant curriculum.
- Strengthen partnerships with external Native American communities, school districts, and other agencies.


## Dual Enrollment

Phoenix College partners with Valley high schools to offer dual enrollment credit for academic and occupational classes. Dual enrollment courses are held on high school campuses and are taught by high school instructors who have met dual enrollment instructor qualifications. The dual
enrollment program strives to increase academic confidence and college attainment of high school students.
What Dual Enrollment Can Do For You:

- Dual enrollment provides quality learning opportunities and helps high school students prepare for college.
- Students experience college level courses - the curriculum and text have been approved by Maricopa County Community College District. These challenging courses enhance high level thinking skills and provide incentive to advance beyond the high school level. Best of all, transition from high school to college begins early and occurs conveniently in a familiar, comfortable environment.


## "One-Stop" Enrollment Center - Hannelly Center Building <br> (602.285.7777)

https://www.phoenixcollege.edu/students/enroll/ enrollment-center
The "One-Stop" Enrollment Center has everything students need to experience a streamlined student process:

- Admissions, Records and Registration
- Academic Advisement
- Student Business Services - Cashiers
- Dean of Student Affairs
- Disability Resources and Services (DRS)
- Financial Aid and Scholarships
- International Education Program
- Recruitment and Retention
- Student ID Cards
- Testing Services
- Transfer Services
- Veterans Services
- Welcome Center


## Faculty Office Hours at Phoenix College

https://www.phoenixcollege.edu/academics/programs/ department
The Faculty Office Hours vary and are posted for public access to students. Telephone numbers are presented within the academic department's Web pages at the link above or see pages 19-20 for Student Services and pages 151-154 for Instructional Departments.

## Financial Aid and Scholarships

(480.731.8900)
https://www.phoenixcollege.edu/faid

## Philosophy

The role of the Financial Aid Office is to assist students in obtaining resources to help pay education costs. The Financial Aid program is designed to provide financial assistance to eligible students from federal, state, institutional, and private funding sources. The program also provides information to families about sources of funding, application procedures, and advice on financial and budgeting issues.

## General Information

Financial assistance can help you manage college costs and pay for college tuition, fees, and books.
Financial aid options include:

- Grants
- Loans
- Federal Work-Study (FWS) Programs
- Scholarships

To apply, students must complete and submit the Free Application for Federal Student Aid (FAFSA) in October.

## Scholarships

Thanks to the generosity of many individuals, corporations, organizations and other donors, Phoenix College students have access to hundreds of scholarships that are available to assist both academically deserving students and those who demonstrate financial need.

Students may search for scholarships and apply through Maricopa Community Colleges District Scholarship Database: https://maricopa. academicworks.com. Students are also encouraged to regularly review the Scholarship, Honors and Financial Aid department blogs for additional scholarship opportunities: https://www.phoenixcollege. edu/beartracks/blogs

## Eligibility Requirements

To be considered to receive federal financial aid funds, students must have a high school diploma or G.E.D. certificate; be a U.S. citizen or eligible noncitizen; have a valid social security number; have registered with the Selective Service, if required; and not be in default on a federal loan or owe repayment of a federal grant. Some of the aid programs are designed for students who have calculated financial need.
Federal regulations state that students must, to continue receiving federal aid, meet and maintain satisfactory academic progress standards as determined by the institution. These standards are applicable even for those semesters of enrollment when federal aid was not received. Students may apply for aid at full or part-time enrolled status. Students enrolled in less than six credit hours within a semester may apply for Federal Pell Grant only.

## Federal Aid Programs

The U.S. Department of Education offers the following major student financial aid programs which are administered by the Financial Aid Office.

## Grants

Pell Grant: A Federal Pell grant, unlike a loan, does not have to be repaid. Federal Pell Grants usually are awarded only to undergraduate students who have not earned a bachelor's or a professional degree. (In some cases, however, a student enrolled in a post baccalaureate teacher certification program might receive a Federal Pell Grant.) The amount you get will depend on your:

- Financial need
- Your cost of attendance
- Your enrollment status
- Your plans to attend school for a full academic year or less

Federal Supplemental Educational Opportunity Grant (SEOG): To get an FSEOG, you must fill out the Free Application for Federal Student Aid (FAFSA) so your college can determine how much financial need you have. Students who will receive Federal Pell Grants and have the most financial need will receive FSEOGs first. The FSEOG does not need to be repaid.
Leveraging Education Assistance Partnership: A program available to residents of Arizona who are enrolled at least half- time and have demonstrated financial need as determined by federal requirements and state procedures. Students with exceptional need will be considered priority to be awarded. Funding is limited.

## Employment

Federal Work Study: Federal Work-Study provides part-time jobs for students with financial need, allowing them to earn money to help pay education expenses. The program encourages community service work and work related to the student's course of study.
Here's a quick overview of Federal Work-Study:

- It provides part-time employment while you are enrolled in school.
- It's available to students with financial need.
- It's available to full-time or part-time students.
- It's administered by schools participating in the Federal Work-Study Program. Check Jobs and Employment page (https://www.phoenixcollege.edu/students/career-services) for open positions.


## Loans

Direct Student Loan: Either subsidized or unsubsidized. A subsidized loan is awarded on the basis of financial need. The federal government pays the interest on the loan until the student begins repayment and during authorized periods when payment is deferred.
An unsubsidized loan is not awarded on the basis of need. Students may choose to pay interest as it accrues or have interest accumulated and added to the principal; the later will increase repayment amount.

Students may receive a subsidized and/or an unsubsidized loan for the same enrollment period, if eligible. In addition to filing the federal financial aid application, a separate student loan application is necessary. The form is available in the Financial Aid Office.

Federal PLUS Loan - Enables parents with good credit history to borrow to pay the education expenses of each child who is a dependent student and enrolled at least half-time. The yearly limit on the PLUS Loan is equal to the cost of education for the student minus any other financial aid the student expects to receive. The interest is variable, but will not exceed $9 \%$. Interest is charged from the time the loan is disbursed and continues to be charged until the loan is paid in full. Parents must begin repaying the principal and interest while the student is still in school.

The Financial Aid Office is located in the Hannelly Center. Please call 480.731.8900 for additional information.

For more information, visit www.phoenixcollege.edu

## International Education Program

International Main Line: (602.285.7424) ESL Hotline: (602.285.7375)
isc @ phoenixcollege.edu
https://www.phoenixcollege.edu/become-student/international-students
The International Education Program is available in the Hannelly Center to students from diverse countries, cultures, and languages. The staff is committed to providing quality services that support the educational goals and enhance student life opportunities for the Phoenix College international community in a culturally-sensitive environment.

Types of services offered include:

- ESL and general advisement
- Admission and registration assistance
- Referrals for citizenship and immigration services
- I-20 application information and processing
- Comprehensive services and information for F-1 students
- International Club support by serving as staff advisor to the international student leaders

For more information:

Email: ISC@phoenixcollege.edu
Online Chat - https://www.phoenixcollege.edu/chat
Email or call us to request an in-person, phone or video appointment

## Learning Commons

(602.285.7486)
learningcommons@phoenixcollege.edu
https://www.phoenixcollege.edu/current-students/tutoring
The Learning Commons (LC), located in the Fannin Library, provides tutoring, workshops, and other services for students to develop skills to become independent life-long learners. Tutoring is available as drop-in, one-on-one, peer-assisted study session (PASS), and/or by appointment; check days and times for each service on our Web page. Tutoring is provided FREE for MCCCD students for select courses, including English, ESL, math, and science. The LC tutors can also assist you with developing your reading, writing, and study skills for any class, and with common technology questions such as accessing and using Canvas, using the online tutoring services, and using a graphing calculator. Anatomy models, graphing calculators and some textbooks are available to check out for use in the LC. The LC also provides popular HESI workshops and ESL Conversation Circles. Look for our tutoring schedule and a list of our services on our Web page.

## Hours

See our Web page for current hours of operation. The Learning Commons follows the Phoenix College Academic Calendar.

## Learning Communities

(602.285.7887)
https://www.phoenixcollege.edu/schedule (Keyword: Learning Community)
Learning Communities offer a wonderful way to learn more! Students are enrolled in at least two courses generally linked around a theme designed to enhance the connections between the two or more courses. Benefits to you include forming closer relationships with your instructors and fellow students; earning credit for courses with common assignments; and increasing your success at Phoenix College and beyond. Learning Communities classes are identified in class schedules, with new Learning Communities continually being developed. For specific offerings, consult with the Instructor and/or with an Academic Advisor.

## Library

(602.285.7473)
https://www.phoenixcollege.edu/library
Fannin Library provides reference services, information resources, and space to study. Reference service is available in person, by phone and online through the Ask a Librarian $24 / 7$ service, as well as by individual appointments through our Research Coach service.

Your active student MEID account allows you to check out books and media from our shelves and also enables your online access to ebooks, articles, and streaming videos.

A variety of seating options are available for use, including individual and group study rooms reservable through our online booking system. Our open computing environment on the main floor is equipped with workstations, printers, scanners, and course-related software. Assistance is available for various software/hardware questions.

Our Library homepage serves as the gateway to information about all services and materials available. Visit us online at the web address above.

Library contacts:
Circulation 602.285.7473
Reference $\quad 602.285 .7470$
Text Us 602.207.8483

## Student ID Cards

## (602.285.7777)

https://www.phoenixcollege.edu/students/enrollment-steps/ student-ids
All students should have a Phoenix College Student ID card. Cards may be obtained in the OneStop Enrollment Center within the Hannelly Center Building. To qualify for a Phoenix College Student ID card, individuals must be enrolled in the current semester, and present another form of approved photo ID as proof of identity. The first card is free; replacement cards are $\$ 5.00$, and must be paid for at the Student Business Services (formerly Cashiers) Office. Cards do not need to be updated each semester.

## Student Life And Leadership

## (602.285.7231)

https://www.phoenixcollege.edu/students/student-life
College activities serve as an important part of any person's college experience, regardless of age or background. College activities provide an opportunity for people to interact socially, develop leadership skills, and utilize classroom theories.

The mission of Student Life and Leadership is to serve the needs of students in leadership development, campus and community involvement, and group interaction. Participation in student activities teaches students how to be successful in organizing programs, setting goals, solving problems, budgeting, managing, and making decisions. The opportunity to work in group situations is prevalent, which assists students in understanding social relations, forming friendships, and appreciating diversity.

Student Life and Leadership unites the campus by promoting contact between students, faculty, and employees through clubs, social justice, and service learning. Students interested in becoming part of any Phoenix College club, event and/or activity may inquire at the Office of Student Life and Leadership, located in the Student Union Building.

## Student Union <br> (602.285.7231)

https://www.phoenixcollege.edu/students/student-life
Also known as the "Bears' Den," the Student Union provides club work-group areas, meeting rooms, computer workstations, a game room, and a spacious patio. The Student Union is home to the following:

- ACE
- Bear's Brew Coffee Bar
- Dual Enrollment
- Hoop of Learning
- Student Life and Leadership
- Student Government/Club Offices
- Game Rooms
- Student Lounge
- Kitchenette


## Testing Services

(602.285.7844)
https://www.phoenixcollege.edu/students/ testing-services
Our colleges now accept multiple placement measures to determine college course placement for students:

High School GPA (Unweighted, cumulative HS GPA of 2.6 or higher, based on a 4.0 scale. 2+ years of high school work within the last 10 years).

ACT, SAT, GED scores valid for 5 years.
Maricopa EdReady [online exams] (English, College Reading, Critical Reading and Critical Thinking, Quantitative Reasoning, Algebra \& Statistic and College Algebra) - this placement does not expire.

ACCUPLACER Exams [In person administer on walk-in basis] (WritePlacer, Reading, Arithmetic, Elementary Algebra, and College Math). Sentence Skills is not accepted - scores valid for 2 Years.

CELSA/ESL Exam scores valid for 2 years
There is no charge for placement testing. Students must have a Student Information Form on file with the Admissions and Records Office prior to placement testing. Students will need an approved photo ID and their 8-digit PC Student Number or MEID for all testing services. Please refer to the Web site for additional details.

Location Hannelly Center, Lower Level

## Transcripts

(602.285.7777)
transcripts@ phoenixcollege.edu
https://www.phoenixcollege.edu/become-student/admissions-and-records/transcripts

Maricopa transcripts are issued upon request and contain all courses taken at all Maricopa Community Colleges. Official transcripts will not be issued for students who have outstanding debts to any of the Maricopa Community Colleges. Students may request transcripts through their Student Center at www.maricopa.edu or call 602.285.7777 for assistance.
All incoming transcripts to Phoenix College must be sent directly from the institutions attended to Admissions, Records and Registration, Phoenix College, 1202 W. Thomas Rd., Phoenix, AZ 85013. International college transcripts must be evaluated from an accredited agency. See Admissions, Records and Registration for a list of suggested agencies. College transcripts from a regionally accredited institution will be evaluated upon receipt. Call 602.285.7777 to verify receipt of transcript.
Students will receive a notice in their Message Center through their Student Center informing them when a transcript(s) has been evaluated. After transcripts are evaluated, students should make an appointment with their advisor for a review of the articulated credit and degree requirements.

## Veterans Services

(602.285.7342)
https://www.phoenixcollege.edu/veterans
Veterans Services is located in the One-Stop Enrollment Center within the Hannelly Center Building and offers all veterans, dependents, and active-duty members assistance with educational benefits, enrollment and transcript information, tutorial assistance, referral for personal, career and academic counseling and other miscellaneous veteran information.

Phoenix College Veterans Services has been approved to certify eligible veterans, dependents, and active-duty members for educational benefits. The following information is provided to assist the student in understanding Department of Veteran's Affairs (VA) certification requirements. The student must notify the Veterans Services office each semester of enrollment if planning to use VA benefits.

If you are concurrently enrolled in more than one institution while attending Phoenix College, you must notify the Veterans Services Office at EACH school in order to ensure the correct payment of benefits.

If you are using your educational benefits for the first time at Phoenix College, it usually takes 56 weeks to receive your first educational benefit payment. Veterans wishing to receive advance pay should apply with Veterans Services at least 45 days prior to the first day of classes. Post-9/11 educational benefit recipients are not eligible for advance pay. Continuing students may not be eligible for advanced pay. Tuition deferments may be available for veterans/ dependents using educational benefits.

VA educational benefits will only pay for prerequisites and required courses under a specific program of study. The one exception to this applies when the student is in their last semester of their degree program. As long as the student is fulfilling all of their degree requirements, the VA will pay for any desired courses offered for that semester. In addition, the VA will pay for courses that do not meet for the entire term, and funding is only for the duration of the class. The payment of benefits may change as courses begin and end. Any questions regarding funding should be referred to Veterans Services.

Every student receiving educational benefits is responsible for notifying Veterans Services of any change in his/her schedule in order to ensure appropriate funding based on the student's enrollment.

VA regulations state that veterans, dependents, and active-duty members who drop classes after the drop/add period may be liable for overpayment back to the beginning of the term. Veterans who receive a grade of " Z " (no credit), "W" (withdrawal), or " Y " (withdrawal failing) may be responsible for repayment of funds. All drops after the refund period must be made with the instructor of the course.

VA regulations require the college to have official copies of transcripts from every college/university attended, including military transcripts, if the veteran is applying for educational benefits. Veterans of all branches of the military, except for the Air Force, should request that an official copy of their JST (Joint Services Transcript) be sent to Phoenix College. Air Force veterans should request that an official copy of their transcript be sent by the Community College of the Air Force (CCAF) to Phoenix College. All transcripts must be requested by the student and should be sent directly to the Admissions, Records and Registration Office at Phoenix College, 1202 W. Thomas Rd., Phoenix, AZ 85013. Email inquiries may be sent to: pc-veteranservices@ phoenixcollege.edu.

## Welcome Center

## (602.285.7777)

https://www.phoenixcollege.edu
The primary purpose of the Welcome Center, located in the Hannelly Center, is to assist students and guests to the campus with information, the admissions and enrollment process, student e-mail, MEID and password, college programs and events, and provide assistance with www.maricopa.edu, the online student center.

## Services

- Provide students with basic information and instructions to facilitate the admissions, registration, advising, and financial aid processes.
- Provide information on most upcoming events.
- Provide assistance to non-English-speaking individuals when possible.


## Materials

- Accuplacer/CELSA Test Schedules
- Brochures and flyers from academic and student services departments
- Final Exam Schedules
- Online PC catalog information
- Online PC class offerings
- Student Information and Registration Forms
- Campus maps


## Important Numbers

| SERVICE | CONTACT |
| :---: | :---: |
| Academic Advisement | $602.285 .7777$ <br> https://www.phoenixcollege.edu/students/advisement |
| Accident Insurance | 602.285.7231 <br> https://www.phoenixcollege.edu/students/student-life/student-resources |
| Admissions, Records and Registration | 602. 285.7777 <br> ar@phoenixcollege.edu <br> https://www.phoenixcollege.edu/become- <br> student/admissions-and-records |
| Adult Basic Education - GED® Test Preparation and English Classes | (480) 517-8110 <br> gedinfo@riosalado.edu, www.riosalado.edu/abe |
| Office of Alumni and Development /Phoenix College Alumni Association (PCAA) | 602.285.7667, 602.285.7652 or 602.285.7337 https://www.phoenixcollege.edu/alumni |
| Athletics | $\begin{aligned} & \text { 602. } 285.7175 \\ & \text { https://athletics.phoenixcollege.edu } \end{aligned}$ |
| Bookstore | 602. 285.7489 <br> www.phoenixcollegeshop.com |
| Cafeteria (Bear Cave Café) | https://www.phoenixcollege.edu/dining/bear-cave-cafe |
| Career Services | $602.285 .7420$ <br> https://www.phoenixcollege.edu/careerservices |
| Child Care | $602.560 .0000$ <br> https://www.phoenixcollege.edu/current-students/support-services/child-care https://www.swhd.org/programs/head-start/ |
| College Police (Public Safety) | - 480.784.0911 Emergency (in-progress and medical emergencies) <br> - 480.784.0900 Non-Emergency (requests to unlock doors, delayed reporting) <br> - 602.285.7254 Campus Business (parking decals, etc.) dl-pc-safety @phoenixcollege.edu, www.phoenixcollege.edu/raveguardian |
| Counseling Department | $\begin{aligned} & \text { (480) 517-8110 } \\ & \text { gedinfo@riosalado.edu,www.riosalado.edu/abe } \end{aligned}$ |
| Disability Resources and Services | 602.285.7667, 602.285.7652 or 602.285.7337 https://www.phoenixcollege.edu/alumni |
| Discrimination Complaint | 602. 285.7228 <br> https://www.maricopa.edu/legal/harassment/dcpstudent.htm |
| Dress Code | 602. 285.7228 <br> https://www.phoenixcollege.edu |
| Early College Programs - (ACE, Hoop of Learning, and Dual Enrollment) | $\begin{aligned} & \text { 602.285.7743 } \\ & \text { earlycollege@ phoenixcollege.edu } \end{aligned}$ |
| Enrollment Center | 602. 285.7777 <br> https://www.phoenixcollege.edu/students/enroll/enrollmentcenter |


| Financial Aid | 480.731 .8900 <br> https://www.phoenixcollege.edu/faid |
| :--- | :--- |
| International Education Program | 602. 285.7424 (International Main Line), 602.285.7375 <br> (ESL Hotline) <br> isc @phoenixcollege.edu <br> https://www.phoenixcollege.edu/become- <br> student/international-students |
| Learning Commons | 602.285 .7486 <br> learningcommons@phoenixcollege.edu <br> https://www.phoenixcollege.edu/current-students/tutoring |
| Learning Communities (Keyword: | 602. 285.7887 <br> https://www.phoenixcollege.edu/schedule |
| Learning Community) | 602.285 .7473 <br> https://www.phoenixcollege.edu/library |
| Student ID Cards | 602.285 .7777 <br> https://www.phoenixcollege.edu/students/enrollment-steps/ <br> student-ids |
| Student Life and Leadership | 602.285 .7231 <br> https://www.phoenixcollege.edu/students/student-life |
| Student Union | 602.285 .7231 <br> https://www.phoenixcollege.edu/students/student-life |
| Testing Services | 602.285 .7844 <br> https://www.phoenixcollege.edu/students/testing-services |
| Transcripts | 602.285 .7777 <br> transcripts@phoenixcollege.edu <br> https://www.phoenixcollege.edu/become-student/admissions- <br> and-records/transcripts |
| Transfer Center | 602.285 .7116 <br> https://www.phoenixcollege.edu/students/advisement/transfer |
| Veterans Services | 602.285 .7342 <br> https://www.phoenixcollege.edu/veterans |
| Welcome Center | 602.285 .7777 <br> https://www.phoenixcollege.edu |

## Student Clubs/Organizations

Student extracurricular activities are an important part of the collegiate experience for all students attending Phoenix College. In addition to our many student clubs and organizations, many opportunities for involvement exist in areas such as athletics, music, art, theatre, community service, and campus events. For more information about clubs and other involvement opportunities, or for information about forming a new student organization, please visit the Office of Student Life and Leadership, located in the Student Union, or visit https://www.phoenixcollege.edu/studentlife.

Club activities must be scheduled through the Office of Student Life and Leadership. Please contact the Office of Student Life and Leadership for more information.

Some of the student leadership and involvement opportunities throughout campus include:

Acapella Club<br>American Choral Directors Association ASL Super Signers Club<br>CGI (Comics, Gaming, and Interface) Club Christian Club<br>Educators Rising eSports Club Fashion Design Club Garden Club<br>Green Team Club Health Science Association<br>Interior Design Club International Club<br>Male Empowerment Network (MEN)<br>Movimiento Estudiantil Chicanos de Aztlan (M.E.Ch.A)<br>NAACP/Black Student Union (BSU)<br>National Alliance of Mental Illness (NAMI)<br>Native American Student Association (NASA) Pantry Club<br>PC3 = Phoenix College Clay Club<br>PC CAN! (PC Climate Action Network)<br>PC United Student Council<br>Phi Beta Lambda Business Club<br>Phi Theta Kappa International Honor Society (PTK)<br>Rainbow Spectrum Club-Queer \& Transgender Advocacy<br>Robotics Club<br>Phoenix College American Dental Hygienist Association (ADHA) Student Chapter<br>Social Justice Organization Spilled Ink Club<br>STEAM Club<br>Student Nurses Organization (SNO)<br>Student Sustainability Club (SUS)<br>Veterans Association (PCVA)<br>Women Rising



# PHOENIXCOLLEGE.EDU 

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## PHOENIX COLLEGE

A MARICOPA COMMUNITY COLLEGE

## Degrees and Certificates

Programs are presented in their Field of Interest in alphabetical order by the Title.

- Behavioral Science and Human Services - Help people, serve your community, and improve the lives of those in need with a rewarding career in healthcare, counseling, and more.
- Business, Entrepreneurialism, and Management - We've designed our Business, Entrepreneurialism, and Management pathway to give you the skills you need to be an economic and social leader.
- Computer and Information Technology-Get the knowledge and real-world experience you need to excel in gaming, programming, tech support, web design, and more.
- Culture and Society-Tackle complex global issues in a wide range of fulfilling career fields, from communication and sociology to history, economics, and beyond.
- Education-If you love learning and want to help students reach their potential, start your career as a teacher, instructional designer, administrator, and more.
- Health Sciences-Help people live better, safer, healthier lives when you pursue a career as a nurse, EMT, physical therapist, personal trainer, and more.
- STEM-Creatively solve problems and explore new frontiers with a challenging STEM career.
- Visual and Performing Arts-Unleash your creativity while honing your craft as you pursue a career in visual art, design, dance, music, fashion, film, or theater.


## BACHELOR'S DEGREE PROGRAMS

Maricopa Community Colleges is excited to launch our first-ever bachelor's degree programs!
Our programs are affordable, convenient, and high quality-offering personalized support, small class sizes, and flexible schedules to guarantee your success. Up to 90 credits may be taken at any of the 10 Maricopa Community Colleges toward your degree completion.

A bachelor's degree is a great investment in your future-providing you with the skills and education you need to be well prepared for a career in a fast-growing field with higher annual earnings, greater job security, and more opportunities for advancement.

# Behavioral Science and Human Services 

CONTACT: Mr. B. Williams, Department Chair:
(602) 285.7234 and/or
bill.williams@phoenixcollege.edu
Administration of Justice
Certificate of Completion - CCL 5007N

## 15 Credits

This program also examines diverse populations and communities, and their effects on relationships with the criminal justice system. In addition, this program allows students to familiarize themselves with and evaluate various career opportunities in the criminal justice field and is one pathway to the Associate in Applied Science (AAS) in Administration of Justice.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 15 Credits
AJS101 Introduction to Criminal Justice................................................................. 3
$\begin{array}{ll}\text { AJS109 } & \text { Substantive Criminal Law (3) OR } \\ \text { AJS260 } & \text { Procedural Criminal Law (3) .................................................................... } 3\end{array}$
AJS123 Ethics and the Administration of Justice ................................................... 3
AJS230 The Police Function ................................................................................ 3
AJS240 The Correction Function............................................................................ 3
Restricted Electives: None.

CONTACT: Mr. B. Williams, Department Chair: (602) 285.7234 and/or bill.williams@phoenixcollege.edu

## Administration of Justice Studies <br> Associate in Applied Science - AAS 3181 61-65 Credits

The Associate in Applied Science (AAS) in Administration of Justice Studies provides in-depth preparation for students desiring to be practitioners or pursue continued education and advancement in several fields including local and federal law enforcement, the courts, corrections, security, and investigations. The program also provides criminal justice practitioners with the opportunity to complete the Certificate of Completion (CCL) in Administration of Justice as well as one of five Certificates of Completion (CCLs) in Corrections, Homeland Security, Law Enforcement, Legal Studies, and Victimology. A transfer pathway in Criminal Justice is also available (Associate Arts (AA), Emphasis in Criminal Justice) as well as an Associate in Applied Science (AAS) in Forensics and related Certificates of Completion.

Program Notes: Students must earn a grade of C or better for all courses required within the program.

## Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 28-30 Credits

| AJS101 | Introduction to Criminal Justice........................................................ 3 |
| :---: | :---: |
| AJS109 | Substantive Criminal Law ............................................................... 3 |
| AJS123 | Ethics and the Administration of Justice ............................................ 3 |
| AJS200 | Current Issues in Criminal Justice (3) OR |
| AJS/EMT/FSC | Victimology and Crisis Management (3)............................................... 3 |
| AJS212 | Juvenile Justice Procedures.............................................................. 3 |
| AJS225 | Criminology ................................................................................ 3 |
| AJS230 | The Police Function ....................................................................... 3 |
| AJS240 | The Correction Function................................................................ 3 |
| AJS260 | Procedural Criminal Law................................................................ 3 |
| FYE101 | Introduction to College, Career and Personal Success (1) OR |
| FYE103 | Exploration of College, Career and Personal Success (3).....................1-3 |

## Restricted Electives: 12-13 Credits

Complete twelve to thirteen (12-13) credits from the course options below. Some of these options fulfill requirements for one or more related certificates of completion (CCLs). Consult with an AJS faculty advisor, program director, and/or academic advisor to identify coursework that best aligns with academic and professional goals.

AJS113 Criminal Justice Crime Control Policies and Practices.............................. 3
AJS119 Computer Applications in Justice Studies ............................................... 3
AJS270 Community Relations............................................................................. 3
The following courses fulfill the requirements for the Corrections certificate (5776N):
AJS205 Effective Communication and Report Writing in Criminal Justice ............ 3
AJS255 The Criminal Justice System Handling of the Mentally Ill......................... 3
AJS275 Criminal Investigation I........................................................................... 3

The following course fulfills the requirements for the Crime Scene Investigation (5964) and Fingerprint Identification and Photography (5010N):
AJS290BN Courtroom Testimony Seminar................................................................ 1
The following courses fulfill the requirements for the Homeland Security (5322N):
AJS/FSC139 Emergency Response to Terrorism .......................................................... 3
AJS/FSC147 Emergency Preparedness ......................................................................... 3
AJS/FSC148 Fundamentals of Emergency Management............................................... 3
AJS/FSC149 Hazard Mitigation ................................................................................... 3
AJS195 International and Domestic Terrorism....................................................... 3
The following courses fulfill the requirements for the Law Enforcement certificate (5987N):
AJS205 $\quad$ Effective Communication and Report Writing in Criminal Justice ............ 3
AJS275 Criminal Investigation I........................................................................... 3
The following courses fulfill the requirements for the Legal Studies certificate (5966N):
AJS201 Rules of Evidence ........................................................................... 3
AJS205 Effective Communication and Report Writing in Criminal Justice ............ 3
AJS210 Constitutional Law .................................................................................. 3
The following courses fulfill the requirements for the Victimology certificate (5392N):
$\begin{array}{ll}\text { AJS162 } & \text { Domestic Violence ............................................................................... } 3\end{array}$
AJS255 The Criminal Justice System Handling of the Mentally Ill......................... 3
AJS+++++ $\quad \begin{aligned} & \text { Any AJS Administration of Justice Studies course not listed under } \\ & \text { the Required Courses area ...................................................................... } 3\end{aligned}$
General Electives: 0-6 Credits
Select additional courses 100 -level or higher to complete the minimum total program credits required for this degree.

Select courses not already listed in Required Courses, Restrictive Electives, or General Education requirements. Consult with an AJS faculty advisor, program director, and/or academic advisor to identify coursework that best aligns with academic and professional goals.

General Education: 16-22 Credits
CORE: 12-18 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) OR
ENG108 First-Year Composition for ESL + (3) ..................................................... 6
Oral Communication:
COM100 Introduction to Human Communication (3) OR
COM110 Interpersonal Communication (3) OR

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

| COM225 | Public Speaking + (3) OR |
| :---: | :---: |
| COM230 | Small Group Communication (3)..................................................... 3 |
| Critical Reading: |  |
| CRE101 | College Critical Reading and Critical Thinking + (3) OR |
| Equivalent as indicated by assessment.......................................................................... 0-3 |  |
| Mathematics: |  |
| MAT140 | College Mathematics + (5) OR |
| MAT141 | College Mathematics + (4) OR |
| MAT142 | College Mathematics + (3) OR |
| MAT145 | College Mathematics with Review (6) OR |
| MAT146 | College Mathematics with Review (6) OR |
| Any higher approved general education course in the Mathematics area .............................. 3-6 |  |
| DISTRIBUTION: 4 Credits |  |
| Humanities, Arts and Design: |  |
| Met by AJS123 in the Required Courses |  |
| Social-Behavioral Sciences: |  |
| Met by AJS101, AJS200, AJS225 or AJS/EMT/FSC258 in Required Courses area................... 0 |  |
| Natural Sciences: |  |
| Any approved general education course from the Natural Sciences area. |  |
| Recommended: |  |
| FOR105 | Forensic Science: Physical Evidence (4) OR |
| FOR106 | Forensic Science: Biological Evidence (4) OR |
|  | a course with the [SQ] or [SG] general education designation (4) ............. 4 |

CONTACT: (602) 285.7651 and/or
PC-Liberal-Arts@phoenixcollege.edu

## Adolescent Studies

Certificate of Completion - CCL 5357N
9 Credits
The Certificate of Completion (CCL) in Adolescent Studies focuses on adolescent development, problem solving, and family relationships in contemporary America. Included are courses that center on the development of skills and techniques to work with adolescents and their families, and strengthen adolescent and family relationships. This certificate is designed for students who are preparing to work or those who are presently employed in professions that require interaction with adolescents and/or adolescent-related issues.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all courses within the program.

Required Courses: 9 Credits
CFS130 Demystifying Adolescence ...................................................................... 1
CFS182 Parenting the Early Adolescent: Ages Ten to Fourteen ............................. 1
CFS183 Contemporary Issues in Adolescence....................................................... 3
CFS277 Adolescent-Adult Interaction................................................................... 3
CFS281 Adolescent School Success...................................................................... 1

CONTACT: Mr. O. Alcordo, Program Director: (602) 285.7125

Community Emergency Response Team (CERT): Level I<br>Certificate of Completion - CCL 5448N<br>1.5 Credits<br>The Certificate of Completion (CCL) in Community Emergency Response Team (CERT): Level I provides basic training for participation on a CERT in accordance with the Federal Emergency Management Agency (FEMA).

Program Notes: Students must earn a grade of C or better in all courses within the program. This program is not eligible for Title IV Federal Financial Aid.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 1.5 Credits
AJS/FSC115 Community Emergency Response Team (CERT): Level I. 1.5

CONTACT: Mr. B. Williams, Department Chair: (602) 285.7234 and/or bill.williams@phoenixcollege.edu

## Corrections <br> Certificate of Completion - CCL 5776N <br> 15 Credits

The Certificate of Completion (CCL) in Corrections program is designed for students intending to pursue careers in various correctional components of the justice system, including parole, probation, jail, and prisons. Focus is broader learning about the correction function in the context of overall administration of justice system.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses within the program.

Admission Criteria: None.
Program Prerequisites: None.

| Requir | dits |
| :---: | :---: |
| AJS101 | Introduction to Criminal Justice........................................................ 3 |
| AJS123 | Ethics and the Administration of Justice (3) OR |
| AJS255 | The Criminal Justice System Handling of the Mentally Ill (3) ................ 3 |
| AJS212 | Juvenile Justice Procedures.. |
| AJS240 | The Correction Function. |
| AJS205 | Effective Communication and Report Writing in Criminal Justice (3) OR |
| AJS275 | Criminal Investigation (3)............................................................... 3 |

## Restricted Electives: None.

CONTACT: Mr. B. Williams, Department Chair: (602) 285.7234 and/or bill.williams@phoenixcollege.edu

## Crime Scene Investigation Certificate of Completion - CCL 5964 16-18 Credits

The Certificate of Completion (CCL) in Crime Scene Investigation is designed to develop knowledge and skills required to investigate and reconstruct crime scenes using scientific evidence and logical analysis. The program provides instruction in criminal investigation procedures, collection and preservation of physical and biological evidence, death investigation techniques, crime scene reconstruction methodology and presentation of testimony in court.

Program Notes: Students must earn a grade of C or better in all courses within the program. + indicates course has prerequisites and/or corequisites.

## Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 16-18 Credits

AJS213

Evidence Technology/Fingerprints .....  3

AJS243 Crime Scene Reconstruction + ................................................................ 3

| AJS215 | Criminalistics: Physical Evidence (3) OR |
| :--- | :--- |
| AJS219 | Crime Scene Technology: Physical Evidence (3) OR |
| FOR105 | Forensic Science: Physical Evidence (4)...........................................3-4 |


| AJS216 | Criminalistics: Biological Evidence (3) OR |
| :--- | :--- |
| FOR106 | Forensic Science: Biological Evidence (4) ........................................... 3-4 |

AJS214 Evidence Technology/Photography .......................................................... 3
AJS275 Criminal Investigation I........................................................................... 3
AJS290BN Courtroom Testimony Seminar................................................................. 1

## Restricted Electives: None.

CONTACT: Mx. S. Stone, Program Director:
serena.stone@phoenixcollege.edu

## Deaf Studies <br> Certificate of Completion - CCL 5333 36-47 Credits <br> The Certificate of Completion (CCL) in Deaf Studies is designed to provide students with intermediate sign language skills and an overview of cultures and communities within the Deaf, the Hard of Hearing, and the Deaf Blind populations. This program will not prepare students as interpreters; it will enhance their ability to provide services to these populations.

Program Notes: Students must earn a grade of B or better in CRE101, ENG101 or ENG107, IPP205, IPP207, ASL202, ASL203, ASL204, and ASL212, and must earn a grade of C or better for all remaining courses required within the program. + indicates course has prerequisites and/or corequisites. Students must complete one- hundred (100) clock hours of community involvement defined by the Program Director.

Admission Criteria: High school diploma, or GED, or equivalent.
Program Prerequisites: None.
Required Courses: 36-47 Credits
ASL101
American Sign Language I (4) OR
American Sign Language I (4) OR Permission of Program Director (0) ..... 0-4
ASL102 American Sign Language II + (4) OR Permission of Program Director (0) ..... 0-4
ASL110 Fingerspelling + .....  3
ASL200 Issues and Resources + .....  3
ASL201 American Sign Language III + ..... 4
ASL202 American Sign Language IV + ..... 4
ASL203 American Sign Language V + .....  4
ASL204 Comparative Linguistics: ASL/English + ..... 3
ASL212 Deaf Culture + .....  3
CRE101 College Critical Reading and Critical Thinking + (3) OR Equivalent as indicated by assessment (0). ..... 0-3
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) ..... 3
ENG102 First-Year Composition + (3) OR
ENG108 First-Year Composition for ESL + (3) ..... 3
IPP198 Careers in Deaf Studies: Observation + ..... 1
IPP205 Introduction to Interpreting + .....  3
IPP207 Ethics and Decision Making for ASL/English Interpreters + .....  2
Restricted Electives: None

CONTACT: Mr. O. Alcordo, Program Director:
(602) 285.7125

## Driver Operator

Certificate of Completion - CCL 5418N
8 Credits
The Certificate of Completion (CCL) in Driver Operator program is designed for students who need (1) advanced training as professional firefighters, (2) preparation courses for career advancement opportunities in fire services, and/or (3) more comprehensive information about the role and function of an emergency vehicle driver/operator.

Program Notes: Students must earn a grade of C or better for all courses required within the program. This program is not eligible for Title IV Federal Financial Aid.

Admission Criteria: Acceptance into the program and permission of Program Director is required. Program Prerequisites: None

Required Courses: 8 Credits
FSC111 Emergency Vehicle Driver Operator........................................................ 2
FSC117 Fire Apparatus.
.3
FSC118 Fire Hydraulics3

CONTACT: Mr. O. Alcordo, Program Director:
(602) 285.7125

## Emergency Communications and Deployment Certificate of Completion - CCL 5775N 2 Credits

Tactical methods of communication, interview, interrogation, assessment, and deployment.
Communication devices include radio, telephone, computer-aided dispatch; mobile digital transmitter. Highlights of human anatomy, physiology disease profiles, and approach to interventions in lifethreatening situations. Persuasive delivery of pre-arrival instructions, most dispatch communications, basic life support techniques for all age groups. Communication with law enforcement on all levels within the community and the state. Contribution to research, quality assurance, and prevention. Education and training to help student function as an emergency dispatch professional.

Program Notes: Students must earn a grade of C or better in all courses within the program. This program is not eligible for Title IV Federal Financial Aid. + indicates course has prerequisites and/or corequisites.

Program Prerequisites: None.
Admission Criteria: None.
Required Courses: 2 Credits
EMT101 Basic Life Support/Cardiopulmonary Resuscitation (CPR) for Health Care Providers . 0.5
EMT116 Emergency Medical Communications (EMD) +................................... 1.5

CONTACT: Mr. O. Alcordo, Program Director:
(602) 285.7125


#### Abstract

Emergency Management Certificate of Completion - CCL 5304 18 Credits The Certification of Completion (CCL) in Emergency Management provides the student with knowledge and skills required to conduct a comprehensive emergency management program. The program prepares students to manage emergency operations, hazardous materials incidents, tactics, strategy, and safety of firefighting activities, and customer service in the public sector. The student will be prepared for positions such as Emergency Manager, Emergency Management Planner, Emergency Operations Coordinator, Environmental Compliance Planner, and Emergency Management Specialist, working in state, local, federal, and international governments, business and industry, military installations, and health care facilities.


Program Notes: Students must earn a grade of C or better in all courses within the program. + indicates course has prerequisites and/or corequisites.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 18 Credits
AJS/FSC139 Emergency Response to Terrorism .......................................................... 3
AJS/FSC146 Disaster Recovery Operations.................................................................. 3
AJS/FSC147 Emergency Preparedness......................................................................... 3
AJS/FSC148 Fundamentals of Emergency Management............................................... 3
AJS/FSC149 Hazard Mitigation ................................................................................... 3
FSC224 Incident Command Systems ..................................................................... 3

## Restricted Electives: None.

CONTACT: Mr. B. Williams, Department Chair: (602) 285.7234 and/or bill.williams@phoenixcollege.edu

## Fingerprint Identification and Photography Certificate of Completion - CCL 5010N 10 Credits

The Certificate of Completion (CCL) in Fingerprint Identification and Photography is designed to prepare students for entry level positions in the field of fingerprint classification and identification. It is one pathway to the Associate in Applied Science (AAS) in Forensic Science.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program. + indicates course has prerequisites and/or corequisites.

Admission Criteria: None.

Program Prerequisites: None.
Required Courses: 10 Credits

AJS101
AJS213
AJS214
AJS290BN

Introduction to Criminal Justice .3
Evidence Technology/Fingerprints ........................................................... 3
Evidence Technology/Photography .. 3
Courtroom Testimony Seminar................................................................. 11

Restricted Electives: None.

CONTACT: Mr. O. Alcordo, Program Director:
(602) 285.7125

Students wishing to apply for the CCL program in Firefighter Operations must speak to an EMT/Fire Science advisor.

## Firefighter Operations <br> Certificate of Completion - CCL 5557

16.5-33 Credits

The Certificate of Completion (CCL) in Firefighter Operations provides the opportunity for individuals seeking careers in the fire service to acquire minimum standard firefighting skills and prepare for state and/or national certifications, including the Firefighter I and II Certification. An Associate in Applied Science (AAS) in Fire Science is also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program.

Admission Criteria: Formal application and admission to the program is required.
Program Prerequisites: None.
Required Courses: 16.5-33 Credits
EMT101 Basic Life Support/Cardiopulmonary Resuscitation (CPR) for Health Care Providers (0.5) OR
Current validation in Basic Life Support (BLS) Health Care Provider/ Professional Rescuer (0) AND Credit By Evaluation (0.5).................................................................... 0.5

EMT104 Emergency Medical Technology + (10) AND
EMT104AB Applied Practical Studies for Emergency Medical Technology + (0.5) AND
EMT104LL Emergency Medical Technology Practicum (2) OR
Arizona State EMT Certification (0) OR Arizona State Paramedic Certification (0) OR

Permission of Program Director (0) 0-12.5

FSC102 Fire Department Operations + .............................................................. 11
FSC105 Hazardous Materials Awareness and Operations (3) OR
Permission of Program Director .......................................................... 0-3
FSC130 Fitness for Firefighters/CPAT (1) OR
Verification of CPAT completion (0)....................................................0-1
FSC134 Fitness and Conditioning for Firefighters +............................................... 3
FSC174 Functions of Command + ......................................................................... 2

## Restricted Electives: None.

CONTACT: Mr. O. Alcordo, Program Director:
(602) 285.7125

## Fire Science

## Associate in Applied Science - AAS 3205 61.5-92 Credits

The Associate in Applied Science (AAS) in Fire Science provides the opportunity for individuals seeking careers in the fire service to acquire standard firefighting skills and prepare for state and/or national certifications, including the Firefighter I and II Certification. Students will gain broad knowledge and skills necessary to work effectively in the fire service as firefighters. A Certificate of Completion (CCL) in Firefighter Operations is also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program. + indicates course has prerequisites and/or corequisites. Consult with your faculty mentor or academic advisor to determine educational requirements, including possible university transfer options, for your chosen career field.

Admission Criteria: Admission to program is required. See Program Director for details.

## Program Prerequisites: None.


FSC118 Fire Hydraulics ..... 3
FSC119 Introduction Fire Service Ethics ..... 3
FSC130 Fitness for Firefighters/CPAT (1) ORVerification of CPAT completion (0).0-1
FSC134 Fitness and Conditioning for Firefighters (3) OR
Fitness and Wellness for Firefighter Candidates + (3)3
(FSC234 is recommended for students who have already completed the Fire Academy equivalent ofFSC102)
FSC174 Functions of Command + ..... 2
FSC208 Firefighter Safety and Building Construction + .....  3
FSC215 Customer Service in the Public Sector ..... 3
FYE101 Introduction to College, Career and Personal Success (1) OR
FYE103 Exploration of College, Career and Personal Success (3) ..... 1-3
Restricted Electives: 1-3 CreditsFSC+++++ Any Fire Science Technology course.
Recommend the following:
FSC202 Supervisory Training for Firefighters ..... 3
FSC204 Firefighting Tactics and Strategy + .....  3
FSC282AC Service-Learning Experience in Fire Science + ..... 3
FSC296WC Cooperative Education + ..... 3
General Education: 22-28 Credits
CORE: 12-18 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) OR ENG108 First-Year Composition for ESL + (3) ..... 6
Oral Communication:COM100 Introduction to Human Communication (3) ORCOM110 Interpersonal Communication (3) OR
COM225 Public Speaking + (3) ORCOM230 Small Group Communication (3)3
COM100 is recommended.
Critical Reading:
CRE101 College Critical Reading and Critical Thinking + (3) OREquivalent as indicated by assessment0-3
Mathematics:

MAT140
MAT141
MAT142
MAT145
MAT146

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Any approved general education course from the Humanities, Fine Arts and Design [HU] area... 3 Social-Behavioral Sciences:
Any approved general education course from the Social and Behavioral Sciences [SB] area ....... 3 Natural Sciences:
Any approved general education course from the Natural Sciences [SG/SQ] area .4

CONTACT: Mr. O. Alcordo, Program Director:
(602) 285.7125

## Fire Service Management <br> Associate in Applied Science - AAS 3207 <br> 61-63 Credits

The Associate in Applied Science (AAS) in Fire Service Management can be used by professional firefighters for promotional opportunities within the Fire Services. The program provides courses for experienced professional firefighters who desire to learn advanced fireground tactics and strategy, building construction, practical incident command, supervisory training of personnel, public administration, basic finance, and human resource management. Students can select from a variety of fire science electives to meet their professional goals. A Certificate of Completion (CCL) in Fire Service Management is also available.

Program Notes: Students must earn a grade of C or better in all courses within the program. + indicates course has prerequisites and/or corequisites.

Admission Criteria: Current employment as a firefighter and/or Firefighter I and II Certification and/or related experience as determined by the Program Director.

Program Prerequisites: None.
Required Courses: 30-32 Credits
ENG111 Technical and Professional Writing +...................................................... 3
$\begin{array}{ll}\text { FYE101 } & \text { Introduction to College, Career and Personal Success (1) OR } \\ \text { FYE103 } & \text { Exploration of College, Career and Personal Success (3) ......................1-3 }\end{array}$
FSC119 Introduction Fire Service Ethics ................................................................ 3
FSC167 Fire Captain Academy +........................................................................ 6
FSC202 Supervisory Training for Firefighters ....................................................... 3
FSC204 Firefighting Tactics and Strategy + ......................................................... 3
FSC208 Firefighter Safety and Building Construction +........................................ 3
FSC214 Human Resources Management in Fire Service + ........................................... 3
FSC220 Fire Officer + .......................................................................................... 5
Restricted Electives: 3-9 Credits
Students should select 3-9 credit hours from the following courses in consultation with a Program Director.
FSC+++++ Any Fire Science Technology course(s)................................................3-9
General Education: 22-28 Credits
CORE: 12-18 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) OR
ENG108 First-Year Composition for ESL + (3) ..................................................... 6
Oral Communication:
COM100 Introduction to Human Communication (3) OR

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

| COM110 | Interpersonal Communication (3) OR |
| :--- | :--- |
| COM225 | Public Speaking + (3) OR |
| COM230 | Small Group Communication (3)............................................................. 3 |

COM100 is recommended.
Critical Reading:
CRE101 College Critical Reading and Critical Thinking + (3) OR
Equivalent as indicated by assessment 0-3

## Mathematics:

MAT140 College Mathematics + (5) OR
MAT141 College Mathematics + (4) OR
MAT142
MAT145
MAT146
College Mathematics + (3) OR
College Mathematics with Review (5) OR
College Mathematics with Review (6) OR
Equivalent or higher-level mathematics course in the Mathematical Applications [MA] area. 3-6
DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Any approved general education course from the Humanities, Fine Arts and Design [HU] area... 3 Social-Behavioral Sciences:
Any approved general education course from the Social and Behavioral Sciences [SB] area3

SOC101 is recommended.
Natural Sciences:
Any approved general education course from the Natural Sciences [SG/SQ] area .4 BIO100, or BIO160, or (CHM130 AND CHM130LL) is recommended.

CONTACT: Mr. O. Alcordo, Program Director:
(602) 285.7125

## Fire Service Management

Certificate of Completion - CCL 5420
21 Credits
The Certificate of Completion (CCL) in Fire Service Management can be used by professional firefighters for promotional opportunities within the Fire Services. The program provides courses for experienced professional firefighters who desire to learn advanced fireground tactics and strategy, building construction, practical incident command, supervisory training of personnel, public administration, basic finance, and human resource management. An Associate in Applied Science (AAS) in Fire Service Management is also available.

Program Notes: Students must earn a grade of C or better in all courses within the program. + indicates course has prerequisites and/or corequisites.

Admission Criteria: Current employment as a firefighter and/or Firefighter I and II Certification and/or related experience as determined by the Program Director.
Program Prerequisites: None.
Required Courses: 21 Credits
FSC119 Introduction Fire Service Ethics............................................................... 3
FSC167 Fire Captain Academy +.......................................................................... 6
FSC202 Supervisory Training for Firefighters ...................................................... 3
FSC204 Firefighting Tactics and Strategy + ........................................................ 3
FSC208 Firefighter Safety and Building Construction +........................................ 3
FSC214 Human Resource Management in Fire Service +...................................... 3
Restricted Electives: None.

CONTACT: Mr. B. Williams, Department Chair: (602) 285.7234 and/or bill.williams@phoenixcollege.edu

## Forensic Science

## Associate in Applied Science - AAS 3183 61-68 Credits

The Associate in Applied Science (AAS) in Forensic Science provides the student with a specialization in forensic investigation as it relates to crime. The curriculum presents a specialized scope of knowledge about photography, collection and preservation of evidence, and investigative strategies. The program provides students with an important knowledge base for investigative specialization in a wide range of disciplines and careers. This degree pathway also provides students with the opportunity to complete two Certificates of Completion (CCL) in Crime Scene Investigation, and Fingerprint Identification and Photography.

Program Notes: Students must earn a grade of C or better in all courses within the program. + indicates course has prerequisites and/or corequisites.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 32-44 Credits
AJS101 Introduction to Criminal Justice................................................................ 3
AJS123 Ethics and the Administration of Justice ................................................... 3
AJS275 Criminal Investigation I............................................................................. 3
AJS290BN Courtroom Testimony Seminar................................................................ 1

| AJS215 | Criminalistics: Physical Evidence (3) OR |
| :--- | :--- |
| AJS219 | Crime Scene Technology: Physical Evidence (3) OR |
| FOR105 | Forensic Science: Physical Evidence (4)............................................ 3-4 |


| AJS216 | Criminalistics: Biological Evidence (3) OR |
| :--- | :--- |
| FOR106 | Forensic Science: Biological Evidence (4) .......................................... 3-4 |


| FYE101 | Introduction to College, Career and Personal Success (1) OR |
| :--- | :--- |
| FYE103 | Exploration of College, Career and Personal Success (3) ......................1-3 |

Students should select courses from one of the following emphases based on career goals. Crime Scene ( 15 credits)
AJS109 Substantive Criminal Law........................................................................ 3
AJS210 Constitutional Law................................................................................... 3
AJS213 Evidence Technology/ Fingerprints .......................................................... 3
AJS214 Evidence Technology/Photography.......................................................... 3
AJS260 Procedural Criminal Law ........................................................................ 3
Lab Science ( 23 credits)
ASM/FOR275 Forensic Anthropology........................................................................... 4
CHM151 General Chemistry I +............................................................................ 3
CHM151LL General Chemistry I Laboratory +.......................................................... 1

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
Higher course with an [MA] general education designation3-8
DISTRIBUTION: 0-4 Credits
Humanities, Arts and Design:
Met by AJS123 in Required Courses area ..... 0
Social-Behavioral Sciences:
Met by AJS101 in Required Courses area ..... 0
Natural Sciences:
Recommended for Specialization 1 Crime Scene: CHM130 .. Fundamental Chemistry + (3) AND
CHM130LL Fundamental Chemistry Laboratory + (1) ORCHM151General Chemistry I + (3) ANDGeneral Chemistry I Laboratory + (1) ORForensic Science: Physical Evidence (4) ORForensic Science: Biological Evidence (4)0-4

For Specialization 2 Lab Science: Met by CHM151 and CHM151LL.

CONTACT: Mr. O. Alcordo, Program Director:
(602) 285.7125

## Hazardous Materials Response Certificate of Completion - CCL 5682 36 Credits <br> The Certificate of Completion (CCL) in Hazardous Materials Response includes training in the use of chemical protective clothing, respiratory protection, air monitoring, equipment field sampling, spill control technology, decontamination, and controlling and stabilizing chemical releases to assist professionals to cope with hazardous materials incidents.

Program Notes: Students must earn a grade of C or for all courses required within the program. + indicates course has prerequisites and/or corequisites.

Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 36 Credits

EMT/FSC104 Emergency Medical Technology.............................................................. 9
FSC105 Hazardous Materials Awareness and Operations................................................ 3
FSC108 Fundamentals of Fire Prevention............................................................. 3
FSC113 Introduction to Fire Suppression.............................................................. 3
FSC125 Hazardous Materials Emergency Scene Management................................ 1
FSC127 $\begin{aligned} & \text { Codes/Regulations and Contingency Planning } \\ & \text { for Hazardous Materials Response.......................................................... } 1\end{aligned}$
FSC128 Hazardous Materials Air Monitoring/Breathing Protection........................ 1
FSC129 Physical Properties of Hazardous Materials............................................. 1
FSC132 Personnel Protective Equipment for Emergency Spill Control at Hazardous Materials Incidents..................... 1
FSC204 Firefighting Tactics and Strategy +.......................................................... 3
FSC208 Firefighter Safety and Building Construction +....................................... 3
FSC211 Fundamentals of Flammable Hazardous Materials + ................................ 3
FSC212 Dangerous and Explosive Hazardous Materials +..................................... 3
FSC213 Hazardous Categorization (Haz Cat)........................................................ 1

CONTACT: Mr. B. Williams, Department Chair:
(602) 285.7234 and/or
bill.williams@phoenixcollege.edu

## Homeland Security <br> Certificate of Completion - CCL 5322N 15 Credits

The Certificate of Completion (CCL) in Homeland Security program is designed to provide students with the knowledge and skills needed to conduct a homeland security evaluation and to assess, investigate and respond to terrorism incidents. It also provides criminal justice practitioners with an opportunity for academic growth and the development of specialized skills in homeland security.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all courses required within the program.

Admission Criteria: None.

Program Prerequisites: None.
Required Courses: 12 Credits


## Restricted Electives: None.

CONTACT: Ms. M. Monahan, Program Director: (602) 285.7837 or
michelle.monahan@phoenixcollege.edu

## Interpreter Preparation <br> Associate in Applied Science - AAS 3332 <br> 60 Credits

Note: This program requires a G.P.A. of 2.5.
The Associate in Applied Science (AAS) in Interpreter Preparation is designed to emphasize skills in American Sign Language (ASL), spoken English, Deaf culture, intercultural communication, and professional behavior for interpreters. In addition, it combines the Deaf Studies and Interpreter Preparation Certificates and prepares students for transfer to a bachelor program. Additionally, theoretical and practical training in interpreting prepares students to meet Arizona* licensure requirements and sit for the following exams: the Educational Interpreter Performance Assessment (EIPA), the Board for Evaluation of Interpreters (BEI), and the written portion of the National Interpreter Certification (NIC) of the Registry of Interpreters for the Deaf (RID), the other two portions of which can be completed upon attainment of a bachelor's degree. A Certificate of Completion (CCL) is also available. *May apply to other states' requirements.

Program Notes: Admission into the Interpreter Preparation Program is available to a limited number of applicants.

Application is available in the Office of ASL-IPP the first week of February and is due the first week of March for the fall semester. See an academic advisor for application requirements and procedures. Students accepted into the program begin the following fall semester.

Students must earn a grade of B or better in IPP209, IPP211, IPP215, IPP216, IPP218, IPP219, IPP220, IPP221, IPP230AA, IPP230AB and IPP242 to graduate. Students must earn a grade of C or better for all remaining courses required within the program. Students must seek Academic Advisement prior to enrollment in IPP216, IPP219, IPP221, IPP230AA, IPP230AB, and IPP242.

Students must complete two-hundred (200) clock hours of community involvement defined by the Program Director.

Students intending to transfer are strongly encouraged to meet with an academic and faculty advisor once they have selected their transfer institution to ensure all requirements for achieving junior standing are satisfied.

Admission Criteria: Students must have a high school diploma, or GED, or equivalent.
Completion of the Certificate of Completion (CCL) in Deaf Studies (5333).
Formal application and acceptance into program is required. There are two options:

1) A one-year full-time day program
2) A two-year part-time evening program

Acceptance into the program requires a video demonstrating English fluency and an in-person interview to demonstrate ASL fluency.

Program Application fee (nonrefundable) supports actual cost for the Sign Language Proficiency Interview. A receipt from the Phoenix College Student Business Services Office is required.

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

The exit criteria of successful completion of capstone skills courses (IPP216, IPP219, IPP221, IPP230AA, 230AB and IPP242) with a B or better will be required and documented for graduation.

## Program Prerequisites: None.

Required Courses: 29-32 Credits
COM225 Public Speaking + ..... 3
FYE101 Introduction to College, Career and Personal Success (1) OR
FYE103 Exploration of College, Career and Personal Success (3) ..... 1-3
IPP209 Introduction to Educational Interpreting + ..... 2
IPP210 Research in the Field of Interpreting +. ..... 3
IPP211 Preparation for Interpreting + ..... 1
IPP215 ASL to English Consecutive Interpreting + ..... 2
IPP216 ASL to English Simultaneous Interpreting + ..... 3
IPP218 English to ASL Consecutive Interpreting + .....  2
IPP219 English to ASL Simultaneous Interpreting + ..... 3
IPP220 Interactive Interpreting I + ..... 3
IPP221 Interactive Interpreting II + ..... 3
IPP229 Interpreter Preparation Internship Seminar + ..... 1
IPP230AA Interpreter Preparation Program Internship + (1) OR IPP230AB Interpreter Preparation Program Internship + (2) ..... 1-2
IPP242 Educational Interpreting Skills + .....  1
Restricted Electives: None.
General Electives: 3-12 Credits
Select additional courses 100-level or higher to complete the 60 minimum credits required for thisdegree if needed. Consult with the Program Director or an Academic Advisor for recommendations.Recommend students apply coursework from Deaf Studies CCL 5333 to meet this requirement.
General Education: 19-25 Credits
CORE: 9-15 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG102
First-Year Composition + (3) OR
First-Year Composition for ESL + (3) ..... 6
ENG108
Oral Communication:
Met by COM225 in Required Courses area ..... 0
Critical Reading:CRE101 College Critical Reading and Critical Thinking + (3)OR Equivalent as indicated by assessment. (0)0-3
Mathematics:
MAT141 College Mathematics + (4) ORMAT142College Mathematics + (3) OR

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
MAT145 College Mathematics with Review (5) ORMAT146
College Mathematics with Review (6) OR
MAT150College Algebra/Functions + (5) ORCollege Algebra/Functions + (4) ORMAT151
MAT152 College Algebra/Functions + (3) OR
MAT156College Algebra/Functions with Review + (6) ORHigher level mathematics course3-6
DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
SLC201 Introduction to Linguistics ..... 3
Social-Behavioral Sciences:
COM110 Interpersonal Communication ..... 3
Natural Sciences:
Any approved general education course from the Natural Sciences area ..... 4

CONTACT: Ms. M. Monahan, Program Director: (602) 285.7837 or
michelle.monahan@phoenixcollege.edu

## Interpreter Preparation <br> Certificate of Completion - CCL 5332 <br> 28-29 Credits

## Note: This program requires a G.P.A. of 2.5.

The Certificate of Completion (CCL) in Interpreter Preparation is designed to emphasize skills in American Sign Language (ASL), spoken English, Deaf culture, intercultural communication, and professional behavior for interpreters. Additionally, theoretical and practical training in interpreting prepares students to meet Arizona* licensure requirements and/or sit for the following exams: the Educational Interpreter Performance Assessment (EIPA), the Board for Evaluation of Interpreters (BEI), and the written portion of the National Interpreter Certification (NIC) of the Registry of Interpreters for the Deaf (RID), the other two portions of which can be completed upon attainment of a bachelor degree. An Associate in Applied Science (AAS) degree is also available. *May apply to other states' requirements.

Program Notes: Admission into the Interpreter Preparation Program is available to a limited number of applicants.

Application is available in the Office of ASL-IPP the first week of February and is due the first week of March for the fall semester. See an academic advisor for application requirements and procedures. Students accepted into the program begin the following fall semester.

Students must earn a grade of B or better in IPP209, IPP211, IPP215, IPP216, IPP218, IPP219, IPP220, IPP221, IPP230AA, IPP230AB and IPP242 to graduate. Students must earn a grade of C or better for all remaining courses required within the program.

Students must seek Academic Advisement prior to enrollment in IPP216, IPP219, IPP221, IPP230AA, IPP230AB, and IPP242.

Students must complete two-hundred (200) clock hours of community involvement defined by the Program Director.

Students intending to transfer are strongly encouraged to meet with an academic and faculty advisor once they have selected their transfer institution to ensure all requirements for achieving junior standing are satisfied.

Admission Criteria: Students must have a high school diploma, or GED, or equivalent.
Completion of the Certificate of Completion (CCL) in Deaf Studies (5333).
Formal application and acceptance into program is required. There are two options:

1) A one-year full-time day program
2) A two-year part-time evening program

Acceptance into the program requires a video demonstrating English fluency and an in-person interview to demonstrate ASL fluency.

Program Application fee (nonrefundable) supports actual cost for the Sign Language Proficiency

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

Interview. A receipt from the Phoenix College Student Business Services Office is required.
The exit criteria of successful completion of capstone skills courses (IPP216, IPP219, IPP221, IPP230AA, IPP230AB and IPP242) with a B or better will be required and documented for graduation.

Program Prerequisites: None.

| Required Courses: | 28-29 Credits |
| :---: | :---: |
| COM225 | Public Speaking + |
| IPP209 | Introduction to Educational Interpreting + |
| IPP210 | Research in the Field of Interpreting + |
| IPP211 | Preparation for Interpreting + |
| IPP215 | ASL to English Consecutive Interpreting +.... |
| IPP216 | ASL to English Simultaneous Interpreting + |
| IPP218 | English to ASL Consecutive Interpreting +. |
| IPP219 | English to ASL Simultaneous Interpreting + |
| IPP220 | Interactive Interpreting I + |
| IPP221 | Interactive Interpreting II + |
| IPP229 | Interpreter Preparation Internship Seminar +..................................... 1 |
| IPP230AA | Interpreter Preparation Program Internship + (1) OR |
| IPP230AB | Interpreter Preparation Program Internship + (2) ................................1-2 |
| IPP242 | Educational Interpreting Skills + ..................................................... 1 |

Restricted Electives: None.

CONTACT: Mr. B. Williams, Department Chair: (602) 285.7234 and/or bill.williams@phoenixcollege.edu

## Law Enforcement <br> Certificate of Completion - CCL 5987N <br> 15 Credits

The Certificate of Completion (CCL) in Law Enforcement is designed for students who are interested in pursuing a course of study specifically focused on law enforcement. The certificate program specializes in training and education related to the duties of law enforcement. The program is designed for the student with no Arizona police academy experience and is one pathway to the Associate in Applied Science (AAS) in Administration of Justice.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all courses within the program.

Admission Criteria: None.

Program Prerequisites: None.
Required Courses: 15 Credits
AJS101 Introduction to Criminal Justice............................................................... 3
AJS123 Ethics and the Administration of Justice .................................................. 3
AJS205 Effective Communication and Report Writing in Criminal Justice ........... 3
AJS230 The Police Function ................................................................................ 3
AJS275 Criminal Investigation I............................................................................ 3
Restricted Electives: None.

CONTACT: Mr. B. Williams, Department Chair: (602) 285.7234 and/or bill.williams@phoenixcollege.edu

## Leadership in Public Safety Organizations Certificate of Completion - CCL 5211N 6 Credits

The Certificate of Completion (CCL) in Leadership in Public Safety Organizations program builds the industry knowledge and skills for individuals to transition to leadership positions in the field of public safety. This CCL will introduce students to the fundamental concepts and skills of professionalism, organizational culture and management, characteristics of effective teams, conflict resolution, motivation, systems-thinking, problem-solving, and leadership as applicable to public safety organizations. Students with the requisite experience in the field who complete this CCL can pursue employment in a variety of front-line leadership positions within the fields of public safety including law enforcement, fire service, and public safety support operations such as communication operators and property and records management.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses within the program.

Admission Criteria: This is a closed program for Public Safety professionals. Please see the Program Advisor for admission requirements.

Program Prerequisites: None.
Required Courses: 6 Credits
LET173 Introduction to Leadership in Public Safety .................................. 2
LET174 Organizational Culture and Leadership +................................................. 3
LET175 Public Safety Leadership Capstone +........................................................ 1
Restricted Electives: None.

CONTACT: Mr. B. Williams, Department Chair: (602) 285.7234 and/or bill.williams@phoenixcollege.edu

## Legal Studies <br> Certificate of Completion - CCL 5966N <br> 15 Credits

The Certificate of Completion (CCL) in Legal Studies is designed for students who are interested in pursuing a course of study specifically focused on legal studies. It is one pathway to the Associate in Applied Science (AAS) in Administration of Justice.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses within the program.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 15 Credits
AJS109 Substantive Criminal Law........................................................................ 3
AJS201
Rules of Evidence.3

AJS123 Ethics and the Administration of Justice (3) OR
AJS205 Effective Communication and Report Writing in Criminal Justice (3)...... 3
AJS210 Constitutional Law ................................................................................... 3
AJS260 Procedural Criminal Law .......................................................................... 3

[^1]CONTACT: Mr. O. Alcordo, Program Director: (602) 285.7125

## Non-Sworn Fire Service Professional Certificate of Completion - CCL 5486

18 Credits
The Certificate of Completion (CCL) in Non-Sworn Fire Service Professional program is designed for students who need basic preparation courses to pursue a non-sworn career as a fire service professional and/or more comprehensive information about life safety, fire hazards, and prevention. A unique feature of the program is that the instructors are professional fire service personnel including firefighters.

Program Notes: Students must earn a grade of C or better for all courses within the program.
Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 18 Credits
FSC105 Hazardous Materials Awareness and Operations........................................ 3
FSC106 Introduction to Fire Protection.................................................................. 3
FSC108 Fundamentals of Fire Prevention.............................................................. 3
FSC113 Introduction to Fire Suppression.............................................................. 3
FSC208 Safety and Building Construction + ........................................................ 3
FSC215 Customer Service in the Public Sector...................................................... 3
Restricted Electives: None.

CONTACT: Paralegal Studies Advisor
(602) 285.7224 and/or
law@phoenixcollege.edu

## Paralegal Studies

Associate in Applied Science - AAS 3384

## 63-74 Credits

The Associate in Applied Science (AAS) in Paralegal Studies Program is designed to prepare students for entry-level employment in law offices. The curriculum is designed to provide students with practical legal skills enabling them to draft legal documents with minimum supervision, and to familiarize them with fundamental concepts of substantive areas such as torts and business law. In addition, emphasis is placed on the development of effective written and oral communication skills, team work, critical thinking skills, computer proficiency, and legal research techniques. Legal theory and related practical applications are integrated throughout the program, as are how to manage practical ethical dilemmas commonly encountered as working paralegals, and how to avoid the unauthorized practice of law by non-lawyers. A paralegal is qualified by education, training, or work experience to work for a law office, corporation, governmental agency, or other entity, performing specifically delegated substantive legal work for which a lawyer is responsible. Paralegals are also referred to as Legal Assistants in some legal settings. Except as specifically authorized by the Supreme Court of Arizona, persons not admitted to the State Bar of Arizona are prohibited from practicing law. A Certificate of Completion (CCL) is also available.

The Paralegal Studies Program is approved by the American Bar Association (ABA), Standing Committee on Paralegals, (321 N. Clark Street, 19th Floor, Chicago, IL 60654-7598).

Program Notes: Students who already possess an Associate's degree, or higher, from an accredited institution, must pursue the Certificate of Completion (CCL) in Paralegal Studies. Students who do not yet have a college degree, cannot pursue the Certificate option, and instead, must pursue the Associate's degree option. The Certificate of Completion (CCL) will not be awarded until an official college transcript verifying attainment of an Associate's degree or higher from an accredited institution is on file with the Phoenix College Admissions Office.

Students who have not yet earned their first college degree are not eligible for the Certificate option, and must pursue the Associate in Applied Science (AAS) in Paralegal Studies. The Associate in Applied Science (AAS) will not be awarded until a record of the high school diploma or GED is on file with the Phoenix College Admissions Office.

Students must earn a grade of C or better for all courses within the program.
Equivalent paralegal courses, as determined by the Paralegal Studies Program Director, taken at other institutions, will be considered for transfer credit if taken at a regionally accredited institution, within a Paralegal Program that was approved by the American Bar Association (ABA) at the time the courses were completed, and that were completed with a grade of $B$ or higher within six (6) years of the date of admission or readmission to the Paralegal Studies Program; a maximum of six (6) semester hours of qualifying coursework can be transferred and applied to LAS101 and/or a paralegal (LAS) Restricted Elective course at Phoenix College. Students must complete a minimum of 18 credits in legal specialty courses as defined by the ABA. Paralegal Studies Courses required by this program are not applicable if taken more than six (6) years prior to admission or readmission to the Paralegal Studies Program.

Students must take at least nine semester credits of legal specialty courses through synchronous instruction (i.e., either in-person or "Live Online"). Consult with the Paralegal Studies Program Advisor for complete information.

Students interested in transferring to an Arizona public university can satisfy the relevant Arizona General Education Curriculum (AGEC-A) and transfer requirements by completing the following: 1. An additional course with the Humanities, Arts and Design [HU] general studies designation 3
2. An additional course with the Natural Sciences ([SQ] or [SG]) designation as needed 4
3. Additional courses that meet the $[\mathrm{C}]$ and $[\mathrm{G}]$ or $[\mathrm{H}]$ designations (may be shared with other core requirements).
4. If exempt from CRE101, an additional course in Literacy and Critical Inquiry [L] (may be shared with other core requirements)

Admission Criteria: Formal application and admission to the program is required. In addition, students wishing to enroll in the Paralegal Studies Program must complete a Verification of Eligibility form to be officially accepted in the program. Contact a Paralegal Studies advisor.

High school diploma or GED equivalency. Completion of First-Year Composition Eligibility for enrollment in:

+ CRE101 College Critical Reading and Critical Thinking (3) OR Equivalent as indicated by assessment.


## Program Prerequisites: 3-6 Credits

BPC110
Computer Usage and Applications (3) OR
CIS105 Survey of Computer Information Systems (3) OR
Permission of Program Director ...................................................... 0-3
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3)3

Required Courses: 38-40 Credits
$\begin{array}{ll}\text { FYE101 } & \text { Introduction to College, Career and Personal Success (1) OR } \\ \text { FYE103 } & \text { Exploration of College, Career and Personal Success (3) ......................1-3 }\end{array}$
LAS101 Introduction to Law ................................................................................. 3
LAS107 The Paralegal Profession ......................................................................... 3
LAS109 Civil Procedures I +................................................................................. 3
LAS110 Civil Procedures II +................................................................................ 3
LAS131 Writing + ............................................................................................. 3
LAS203 Ethics and Professional Practice +........................................................... 3
LAS204 Contract Law +...................................................................................... 3
LAS211 Legal Research +..................................................................................... 3
LAS212 Tort Law +............................................................................................ 3
LAS214 Business Organizations +........................................................................ 3
LAS225 Legal Research, Analysis, and Writing +................................................. 3
LAS229 Litigation Technologies +........................................................................ 3
LAS280 Paralegal Studies Portfolio Capstone +................................................... 1

Restricted Electives: 3 Credits
LAS+++
Any LAS Paralegal Studies course(s) not used in the Required Courses area 3

General Electives: None
General Education Requirements: 19-25 Credits
CORE: 9-15 Credits
First-Year Composition:
ENG101 OR ENG107 met by Program Prerequisites area.
ENG102 First-Year Composition + (3) OR
ENG108 First-Year Composition for ESL + (3) ...................................................... 3
Oral Communication:
COM110 Interpersonal Communication (3) OR
COM225 Public Speaking + (3) OR
COM230 Small Group Communication (3)3

Critical Reading:
CRE101 College Critical Reading and Critical Thinking + OR Equivalent as indicated by assessment0-3

Mathematics:
MAT140 College Mathematics + (5) OR
MAT141 College Mathematics + (4) OR
MAT142 College Mathematics + (3) OR
MAT145 College Mathematics with Review (5) OR
MAT146 College Mathematics with Review (6) OR
higher level Mathematics course.
DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
AJS123 Ethics and the Administration of Justice (3) OR
HIS103 United States History to 1865 (3) OR
HIS108 United States History 1945 to the Present (3) OR
PHI101 Introduction to Philosophy (3) OR
PHI103 Introduction to Logic (3) .......................................................................... 3
Social-Behavioral Sciences:
ECN211 Macroeconomic Principles (3) OR
ECN212 Microeconomic Principles (3) OR
HIS104 United States History 1865 to Present (3) OR
POS110 American National Government (3) OR
POS120 World Politics (3) OR
PSY101 Introduction to Psychology (3) OR
SOC101 Introduction to Sociology (3)
Natural Sciences:
BIO100
Biology Concepts (4) OR
BIO105 Environmental Biology (4) OR
BIO160 Introduction to Human Anatomy and Physiology (4) OR
CHM107 Chemistry and Society (3) AND
CHM107LL Chemistry and Society Laboratory + (1) OR
FON241 Principles of Human Nutrition (3) AND
FON241LL Principles of Human Nutrition Laboratory + (1)4

CONTACT: Paralegal Studies Advisor
(602) 285.7224 and/or
law@phoenixcollege.edu

## Paralegal Studies

## Certificate of Completion - CCL 5384

## 40-43 Credits

The Certificate of Completion (CCL) in Paralegal Studies Program is designed to prepare students for entry-level employment in law offices. The curriculum is designed to provide students with practical legal skills enabling them to draft legal documents with minimum supervision, and to familiarize them with fundamental concepts of substantive areas such as torts and business law. In addition, emphasis is placed on the development of effective written and oral communication skills, team work, critical thinking skills, computer proficiency, and legal research techniques. Legal theory and related practical applications are integrated throughout the program, as are how to manage practical ethical dilemmas commonly encountered as working paralegals, and how to avoid the unauthorized practice of law by non-lawyers. A paralegal is qualified by education, training, or work experience to work for a law office, corporation, governmental agency, or other entity, performing specifically delegated substantive legal work for which a lawyer is responsible. Paralegals are also referred to as Legal Assistants in some legal settings. Except as specifically authorized by the Supreme Court of Arizona, persons not admitted to the State Bar of Arizona are prohibited from practicing law. An Associate in Applied Science (AAS) is also available.

The Paralegal Studies Program is approved by the American Bar Association (ABA), Standing Committee on Paralegals, (321 N. Clark Street, 19th Floor, Chicago, IL 60654-7598).

Program Notes: Students who already possess an Associate's degree, or higher, from an accredited institution, must pursue the Certificate of Completion (CCL) in Paralegal Studies. Students who do not yet have a college degree, cannot pursue the Certificate option, and instead, must pursue the Associate's degree option. The Certificate of Completion (CCL) will not be awarded until an official college transcript verifying attainment of an Associate's degree or higher from an accredited institution is on file with the Phoenix College Admissions Office.

Students who have not yet earned their first college degree are not eligible for the Certificate option, and must pursue the Associate in Applied Science (AAS) in Paralegal Studies. The Associate in Applied Science (AAS) will not be awarded until a record of the high school diploma or GED is on file with the Phoenix College Admissions Office.

Students must earn a grade of C or better for all courses within the program.
Equivalent paralegal courses, as determined by the Paralegal Studies Program Director, taken at other institutions, will be considered for transfer credit if taken at a regionally accredited institution, within a Paralegal Program that was approved by the American Bar Association (ABA) at the time the courses were completed, and that were completed with a grade of $B$ or higher within six (6) years of the date of admission or readmission to the Paralegal Studies Program A maximum of six (6) semester hours of qualifying coursework can be transferred and applied to LAS101 and/or a paralegal (LAS) Restricted Elective course at Phoenix College. Students must complete a minimum of 18 credits in legal specialty courses as defined by the ABA. Paralegal Studies Courses required by this program are not applicable if taken more than six (6) years prior to admission or readmission to the Paralegal Studies Program.

Students must take at least nine semester credits of legal specialty courses through synchronous instruction (i.e., either in-person or "Live Online"). Consult with the Paralegal Studies Program Advisor for complete information.

Admission Criteria: Formal application and admission to the program is required. In addition, students wishing to enroll in the Paralegal Studies Program must complete a Verification of Eligibility form to be officially accepted in the program. Contact a Paralegal Studies advisor.
Admission to the Certificate option requires that students possess an Associate's Degree or higher from an institution that is accredited by an accrediting agency acceptable to the ABA Standing Committee on Paralegals. https://www.americanbar.org/content/dam/aba/administrative/paralegals/downloads/accreditingagencies. authcheckdam.pdf
Program Prerequisites: 0-3 Credits

BPC110 Computer Usage and Applications (3) OR

CIS105 Survey of Computer Information Systems (3) OR Permission of Program Director ..... 0-3

Required Courses: 37 Credits
LAS101 Introduction to Law................................................................................... 3
LAS107 The Paralegal Profession ......................................................................... 3
LAS109 Civil Procedures I + ................................................................................ 3
LAS110 Civil Procedures II +............................................................................... 3
LAS131 Legal Writing +...................................................................................... 3
LAS203 Ethics and Professional Practice + .......................................................... 3
LAS204 Contract Law + ..................................................................................... 3
LAS211 Legal Research +..................................................................................... 3
LAS212 Tort Law + ............................................................................................. 3
LAS214 Business Organizations +........................................................................ 3
LAS225 Legal Research, Analysis, and Writing +................................................. 3
LAS229 Litigation Technologies + ...................................................................... 3
LAS280 Paralegal Studies Portfolio Capstone + ................................................... 1
Restricted Electives: 3 Credits
LAS+++
Any LAS Paralegal Studies course(s) not used in the Required Courses area 3

CONTACT: Mr. B. Williams, Department Chair:
(602) 285.7234 and/or
bill.williams@phoenixcollege.edu

## Public Safety Administration <br> Bachelor of Applied Science - BAS 9303 <br> 120 Credits

The Bachelor of Applied Science (BAS) in Public Safety Administration prepares students with the skills necessary to coordinate, develop, and direct the resources of a variety of public safety agencies. Courses within this program analyze the legal, political, and social factors related to public safety, and provide an overview of topics such as organizational theory, public policy, resource management, leadership, and ethics. Prior to completion of this program, students will complete a capstone project within the field of public safety administration, applying the concepts covered throughout the program.

Program Notes: Students must earn a grade of C or better in each course in the program. The BAS in Public Safety Administration is aligned with current Maricopa CCL and AAS awards and supports students seeking professional advancement.

Admission Criteria: Students seeking admission into one of the Specializations presented below must meet the specified requirements. Consult with a Program Director or an Academic Advisor in the field of interest.

Corrections and Detention Specialization
This specialization is offered through an educational partnership. Employment by the partnership organization is required for admission.

## Fire Science Specialization

Students must be current and in good standing with the Arizona Department of Health Services Bureau of Emergency Medical Services-Certified Technician. EMT certification preparatory courses are available at Maricopa County Community Colleges. Contact an academic advisor for details. Admission to specialization is required. See Program Director for details.

Fire Management Specialization
Students must be currently employed as a firefighter and/or Firefighter I and II Certification and/or related experience as determined by the Program Director.

Law Enforcement Specialization
Must meet AzPOST minimum requirements for a law enforcement officer and meet any physical requirements by the Academy Director. This program is offered as an educational partnership at Rio Salado College.

## Paramedicine Specialization

Students must be current and in good standing with the Arizona Department of Health Services Bureau of Emergency Medical Services-Certified Technician. EMT certification preparatory courses are available at Maricopa County Community Colleges. Contact an academic advisor for details. Students must complete an application and selection process.

## Program Prerequisites: None.

Required Courses: 38-49 Credits

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

| FYE101 | Introduction to College, Career and Personal Success (1) OR |
| :--- | :--- |
| FYE103 | Exploration of College, Career and Personal Success (3) ..................... $1-3$ |


| COM263 | Elements of Intercultural Communication (3)..................................... 3 |
| :---: | :---: |
| COM230 | Small Group Communication.......................................................... 3 |
| LET167 | Correctional Sergeant Leadership + (2) OR |
| MGT229 | Management and Leadership I (3)..................................................2-3 |
| POS220 | U.S. and Arizona Constitution (3) OR |
| POS221 | Arizona Constitution (1) AND |
| POS222 | U.S. Constitution (2) ...................................................................... 3 |
| PSY101 | Introduction to Psychology (3) OR |
| PSY132 | Psychology and Culture (3)............................................................ 3 |
| SOC101 | Introduction to Sociology ................................................................ 3 |
| Related Area Course (3-4 credits) |  |
| Select three to four (3-4) credits from the category below that best aligns with academic and professional goals. Consult with an academic, faculty, or program advisor. |  |
| Cultural Responsiveness and Society: |  |
| AFR/ASB/ |  |
| CCS202 | Ethnic Relations in the United States ................................................ 3 |
| REL100 | World Religions ............................................................................ 3 |
| SOC110 | Drugs and Society ....................................................................... 3 |
| SOC241 | Race and Ethnic Relations .............................................................. 3 |
| SOC245 | Social Deviance ........................................................................... 3 |
| SPH245 | Hispanic Heritage in the Southwest .................................................. 3 |
| Management and Leadership: |  |
| MGT230 | Management and Leadership II + .................................................... 3 |
| PAD+++++ | Any PAD Public Administration Course........................................... 3 |
| Psychology: |  |
| PSY266 | Psychological Disorders +............................................................. 3 |
| PSY270 | Personal and Social Adjustment +................................................... 3 |
| Spanish: |  |
| SPA101 | Elementary Spanish I.................................................................... 4 |
| SPA102 | Elementary Spanish II +................................................................. 4 |
| SPA115 | Beginning Spanish Conversation I................................................... 3 |
| Specialization 2: Detention (Closed to General Population) (38-40 credits) |  |
| LET130 | Detention Officer Training + ......................................................... 2 |
| LET132 | Introduction to Correctional Law +................................................... 3 |
| LET134 | Special Needs Issues and Communication + ...................................... 2 |
| LET135 | Problem Solving and Crisis Management + ........................................ 2 |
| LET136 | Detention Security Procedures +....................................................... 2 |
| LET138 | Detention Officer Emergency Procedures + ...................................... 1 |
| LET139 | Detention Facility Training + .......................................................... 2 |

LET141 Detention Defensive Tactics + ..... 4
Note: Completion of the above courses fulfills the requirements of the CCL in Basic Detention (5699N)
COM110 Interpersonal Communication (3) OR
COM263 Elements of Intercultural Communication (3) ..... 3
COM230 Small Group Communication ..... 3
MGT229 Management and Leadership I ..... 3
POS220 U.S. and Arizona Constitution (3) OR
POS221 Arizona Constitution (1) AND
POS222 U.S. Constitution (2) ..... 3
PSY101 Introduction to Psychology (3) OR
PSY132 Psychology and Culture (3) ..... 3
SOC101 Introduction to Sociology .....  3
Related Area Course (2-4 credits)
Select two to four (2-4) credits from the category below that best aligns with academic and professionalgoals. Consult with an academic, faculty, or program advisor.
Cultural Responsiveness and Society:
AFR/ASB/
CCS202 Ethnic Relations in the United States ..... 3
REL100 World Religions .....  3
SOC110 Drugs and Society .....  3
SOC241 Race and Ethnic Relations ..... 3
SOC245 Social Deviance ..... 3
SPH245 Hispanic Heritage in the Southwest ..... 3
Management and Advanced Training in Detention:
LET144 Detention Officer Field Training + ..... 2
LET148 Detention Officer Field Training Lab + .....  3
LET150 Firearms I + ..... 3
LET151 Firearms II + ..... 2
LET155 General Instructor Certification .....  3
LET201 Physical Fitness Instructor Certification + .....  3
LET225 Criminal Investigations Certification + . ..... 6
MGT230 Management and Leadership II + ..... 3
PAD+++++ Any PAD Public Administration Course. ..... 3
Psychology:
PSY266 Psychological Disorders + ..... 3
PSY270 Personal and Social Adjustment + ..... 3
Spanish:
SPA101 Elementary Spanish I .....  4
SPA102 Elementary Spanish II + ..... 4
SPA115 Beginning Spanish Conversation I ..... 3

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
Specialization 3: Juvenile Corrections (Closed to General Population) (41 credits) LET112 Introduction to Juvenile Corrections .....  2
LET113 Juvenile Corrections Procedures ..... 2
LET114 Juvenile Corrections Officer Skills ..... 3
LET115 Crisis Intervention in Juvenile Corrections ..... 2
LET116 Adolescent Treatment Issues ..... 3
LET117 Juvenile Corrections Supervision ..... 3
LET118 Legal Issues in Juvenile Corrections ..... 3
LET120 Juvenile Corrections Housing Unit Operations ..... 2
Note: Completion of the above courses fulfills the requirements of the CCL in Juvenile Corrections(5829N)
CFS205 Human Development .....  3
CFS277 Adult-Adolescent Interaction ..... 3
COM110 Interpersonal Communication (3) OR
COM263 Elements of Intercultural Communication (3) ..... 3
COM230 Small Group Communication ..... 3
POS220 U.S. and Arizona Constitution (3) OR
Arizona Constitution (1) AND POS221U.S. Constitution (2)3
PSY101 Introduction to Psychology (3) OR
PSY132 Psychology and Culture (3) ..... 3
SOC101 Introduction to Sociology ..... 3
Specialization 4: Administration of Justice Studies (39-40 credits) AJS101 Introduction to Criminal Justice .....  3
AJS109 Substantive Criminal Law ..... 3
AJS123 Ethics and the Administration of Justice ..... 3
AJS200 Current Issues in Criminal Justice (3) OR
AJS/EMT/FSC258 Victimology and Crisis Management in Public Safety (3) ..... 3
AJS212 Juvenile Justice Procedures. ..... 3
AJS225 Criminology ..... 3
AJS230 The Police Function .....  3
AJS240 The Correction Function. .....  3
AJS260 Procedural Criminal Law ..... 3
Related Area Course (12-13 credits)Select twelve to thirteen (12-13) credits from the category below that best aligns with academic andprofessional goals. Consult with an academic, faculty, or program advisor.
AJS113 Criminal Justice Crime Control Policies and Practices ..... 3
AJS119 Computer Applications in Justice Studies ..... 3
+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
AJS162 Domestic Violence ..... 3
(Fulfills Victimology certificate requirement)(Fulfills Legal Studies certificate requirement)
AJS205 Effective Communication and Report Writing in Criminal Justice ..... 3
(Fulfills Corrections, Law Enforcement and Legal Studies certificate requirement) AJS210 Constitutional Law ..... 3
(Fulfills Legal Studies certificate requirement)
AJS255 The Criminal Justice System Handling of the Mentally Ill ..... 3
(Fulfills Corrections and Victimology certificate requirement)
AJS270 Community Relations ..... 3
AJS275 Criminal Investigation I ..... 3
(Fulfills Corrections and Law Enforcement certificate requirement) AJS290BN Courtroom Testimony Seminar ..... 1
AJS+++++ Any AJS Administration of Justice Studies course not listed under Required Courses area (3) OR
BPC110 Computer Usage and Applications (3) OR
CIS105 Survey of Computer Information Systems (3) ..... 3
CIS114DE Excel Spreadsheet ..... 3
PSY101 Introduction to Psychology (3) OR
Introduction to Sociology (3)
Introduction to Sociology (3) .....  3 .....  3
SOC101
SOC101
Leisure and the Quality of Life ..... 3
SWU171 Introduction to Social Work ..... 3
Specialization 5: Forensic Science - Crime Scene (37-39 credits)
AJS101 Introduction to Criminal Justice .....  3
AJS109 Substantive Criminal Law ..... 3
AJS123 Ethics and the Administration of Justice ..... 3
AJS210 Constitutional Law .....  3
AJS213 Evidence Technology/ Fingerprints. .....  3
AJS214 Evidence Technology/Photography .....  3
AJS215 Criminalistics: Physical Evidence (3) OR
AJS219 Crime Scene Technology: Physical Evidence (3) OR
FOR105 Forensic Science: Physical Evidence (4) ..... 3-4
AJS216 Criminalistics: Biological Evidence (3) OR FOR106 Forensic Science: Biological Evidence (4) ..... 3-4
AJS260 Procedural Criminal Law .....  3
AJS275 Criminal Investigation I. ..... 3
AJS290BN Courtroom Testimony Seminar ..... 1
CIS105 Survey of Computer Information Systems (3) OR ..... BPC110
Computer Usage and Applications (3) OR
Any AJS Administration of Justice Studies course not listed in the required courses area. (3) ..... 3
COM225 Public Speaking + ..... 3
+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
Specialization 6: Forensic Science - Lab Science (48-55 credits)
AJS101 Introduction to Criminal Justice ..... 3
AJS123 Ethics and the Administration of Justice ..... 3
AJS275 Criminal Investigation I. ..... 3
AJS290BN Courtroom Testimony Seminar ..... 1
AJS215AJS219 Crime Scene Technology: Physical Evidence (3) OR
FOR105 Forensic Science: Physical Evidence (4) ..... 3-4
AJS216 Criminalistics: Biological Evidence (3) OR
Forensic Science: Biological Evidence (4) ..... 3-4
ASM/FOR275 Forensic Anthropology ..... 4
CHM151 General Chemistry I + ..... 3
CHM151LL General Chemistry I Laboratory + ..... 1
CHM152 General Chemistry II +. ..... 3
CHM152LL General Chemistry II Laboratory + ..... 1
CIS105 Survey of Computer Information Systems (3) OR
Computer Usage and Applications (3) .....  3
BPC110
BPC110
Public Speaking + .....  3
MAT150 College Algebra/Functions + (5) OR
MAT151 College Algebra/Functions + (4) OR
College Algebra/Functions + (3) AND
Plane Trigonometry + (3) OR
Precalculus + (5) OR
Higher level course in the Mathematical Applications [MA] area ..... 3-8
PHY111 General Physics I + ..... 4
PHY112 General Physics II + .....  4
Any course with the $\mathrm{HU}, \mathrm{C}$ and G general education designations (3) OR
Any course with the HU, C and H general education designations (3) ..... 3
Specialization 7: Law Enforcement Training (Closed to General Population) (40 credits) AJS101 Introduction to Criminal Justice ..... 3
AJS109 Substantive Criminal Law ..... 3
AJS113 Criminal Justice Crime Control Policies and Practices ..... 3
AJS151 Firearms I ..... 1
AJS153 Firearms II/Handguns + .....  1
AJS154 Firearms III/Long Weapons ..... 1
AJS162 Domestic Violence ..... 3
AJS201 Rules of Evidence. ..... 3
AJS205 Effective Communication and Report Writing in Criminal Justice .....  3
AJS210 Constitutional Law ..... 3
AJS215 Criminalistics: Physical Evidence. ..... 3
AJS230 The Police Function ..... 3
AJS260 Procedural Criminal Law .....  3
AJS270 Community Relations .....  3
AJS275 Criminal Investigation I ..... 3
AJS290BN Courtroom Testimony Seminar .....  1
+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
Specialization 8: Fire Science Selective Admissions (38-48 credits)FSC101 Introduction to Fire Service Selection and Entry (4) ORCurrent employment as a firefighter as determined by theProgram Director. (0)0-4
FSC102 Fire Department Operations + ..... 11
FSC105 Hazardous Materials Awareness and Operations (3) OR Permission of Program Director (0) ..... 0-3
FSC108 Fundamentals of Fire Prevention (3) OR
FSC110 Wildland Firefighter (3) ..... 3
(FSC110 is recommended)
FSC113 Introduction to Fire Suppression ..... 3
FSC117 Fire Apparatus. ..... 3
FSC118 Fire Hydraulics ..... 3
FSC119 Introduction Fire Service Ethics. ..... 3
FSC130 Fitness for Firefighters/CPAT (1) OR
Verification of CPAT completion (0) ..... 0-1
FSC134 Fitness and Conditioning for Firefighters (3) OR FSC234 Fitness and Wellness for Firefighter Candidates + (3) ..... 3
(FSC234 is recommended for students who have already completed the Fire Academy equivalent ofFSC102)
FSC174 Functions of Command + ..... 2
FSC208 Firefighter Safety and Building Construction + ..... 3
FSC215 Customer Service in the Public Sector ..... 3
Related Area (1-3 credits)
Select one to three (1-3) credits from the category below that best aligns with academic and professionalgoals. Consult with an academic, faculty, or program advisor.
FSC+++++ Any FSC Fire Science Technology course ..... 3
Recommend the following:
FSC202 Supervisory Training for Firefighters ..... 3
FSC204 Firefighting Tactics and Strategy +... ..... 3
FSC282AC Service-Learning Experience in Fire Science + 3
FSC296WC Cooperative Education + .....  3
Specialization 9: Fire Service Management Selective Admissions (32-38 credits) ENG111 Technical and Professional Writing + ..... 3
FSC119 Introduction Fire Service Ethics .....  3
FSC167 Fire Captain Academy +. ..... 6
FSC202 Supervisory Training for Firefighters ..... 3
FSC204 Firefighting Tactics and Strategy + .....  3
FSC208 Firefighter Safety and Building Construction + .....  3
FSC214 Human Resource Management in Fire Service + ..... 3
+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.Fire Officer +5
Related Area Course (3-9 credits)
Select three to nine (3-9) credits form the category below that best aligns academic and professionalgoals. Consult with an academic, faculty, or program advisor.
FSC+++++ Any FSC Fire Science Technology course ..... 3-9
Specialization 10: Public Administration (39 credits)
The below courses fulfill the requirements for the Certificate of Completion in Public Administration(5691)
CIS114DE Excel Spreadsheet ..... 3
COM100 Introduction to Human Communication (3) OR
COM230 Small Group Communication (3) ..... 3
PAD107 Public Finance Administration + ..... 3
PAD122 Public Sector Human Resources Management + .....  3
PAD170 Public Sector Organizational Behavior ..... 3
POS110 American National Government .....  3
Related Area Course (21 credits)
Select twenty-one (21) credits from the category below that best aligns with academic and professionalgoals. A student may choose no more than nine (9) credits within a discipline. Consult with anacademic, faculty, or program advisor.
ACC111 Accounting Principles I ..... 3
ACC112 Accounting Principles II + (3) OR
Uses of Accounting Information I + (3) ..... 3
ACC212 Managerial Accounting + (3) OR
Uses of Accounting Information II + (3) .....  3
ECN211 Macroeconomic Principles ..... 3
ECN212 Microeconomic Principles .....  3
GBS151 Introduction to Business ..... 3
GBS205 Legal, Ethical, and Regulatory Issues in Business ..... 3
GBS233 Business Communication + ..... 3
MGT175 Business Organization and Management ..... 3
MGT229 Management and Leadership I ..... 3
POS221 Arizona Constitution ..... 1
PSY101 Introduction to Psychology ..... 3
SOC101 Introduction to Sociology .....  3
SOC212 Gender and Society ..... 3
CIS+++++ Any CIS Computer Information Systems course(s)HCC+++++ Any HCC Health Core Curriculum course(s)HCR+++++ Any HCR Health Care Related course(s)
LBS+++++ Any LBS Library Skills course(s)LEO+++++ Any LEO Law Enforcement Operations course(s)
LET+++++ Any LET Law Enforcement Technology course(s)
PAD+++++ Any PAD Public Administration course(s)
Specialization 11: Paramedicine Selective Admissions (45-51 credits)
BIO160 Introduction to Human Anatomy and Physiology ..... 4
PME190 Introduction to ECG Rhythm Analysis andInterpretation for EMS Professionals (3) ORPermission of Program Director (0)0-3
PME191 Introduction to Pharmacology for EMS Professionals (3) OR Permission of Program Director (0) ..... 0-3
PME201 Advanced Cardiac Life Support (ACLS) Initial Provider in Paramedicine +. .....  .1
PME202 Pediatric Advanced Life Support (PALS) Initial Provider in Paramedicine +. ..... 1
PME203 Pediatric Emergencies for Prehospital Professionals (PEPP) Initial Provider in Paramedicine + ..... 1
PME204 Neonatal Resuscitation Provider (NRP) in Paramedicine + ..... 0.5
PME205
Advanced Medical Life Support (AMLS) Initial Provider
Advanced Medical Life Support (AMLS) Initial Provider in Paramedicine + ..... 1
PME206 International Trauma Life Support (ITLS) Provider/Pre-Hospital Trauma Life Support (PHTLS) + .....  1
PME240 Pharmacology in Paramedicine + ..... 3
PME245 Airway and Ventilatory Management in Paramedicine + .....  3
PME250 Comprehensive Patient Assessment in Paramedicine + ..... 1
PME251 Medical Emergencies in Paramedicine I + ..... 4
PME252 Medical Emergencies in Paramedicine II + ..... 4
PME253 Medical Emergencies in Paramedicine III + ..... 4
PME254 Technical Operations in Paramedicine + ..... 2.5
PME260 Trauma Patient Management in Paramedicine + .....  2
PME270 Immersive Total Patient Management Experience (ITPME) + ..... 2
PME280 Preparation for Paramedicine Practicum + .....  1
PME281 Paramedicine Clinical Practicum: Comprehensive + (2) OR
PME281AA Paramedicine Clinical Practicum: Phase I + (1) AND
PME281AB Paramedicine Clinical Practicum: Phase II + (1) ..... 2
PME288 Paramedicine Comprehensive Field Internship Practicum + ..... 5
PME289 Preparation for Paramedic National Credentialing + ..... 2

Specialization 12: Public Safety, General (29-70 credits) Choose 29-70 industry/job specific course credits from the list below. Consult with a faculty advisor, program director, and/or academic advisor to identify coursework that best aligns with academic and professional goals.

| ACC+++++ | Any ACC Accounting course(s) |
| :--- | :--- |
| AJS++++++ | Any AJS Administration of Justice Studies course(s) |
| CWE++++++ | Any CWE Career Work Experience course(s) |
| DPR+++++ | Any DPR Disaster Preparedness and Emergency Response course(s) |
| ECN+++++ | Any ECN Economics course(s) |
| EMT+++++ | Any EMT Emergency Medical Technology course(s) |
| FOR+++++ | Any FOR Forensic Science course(s) |

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

| FSC++++++ | Any FSC Fire Science Technology course(s) |
| :--- | :--- |
| GBS +++++ | Any GBS General Business course(s) |
| HCC+++++ | Any HCC Health Core Curriculum course(s) |
| HCR+++++ | Any HCR Health Care Related course(s) |
| JAS+++++ | Any JAS Justice and Government Agencies Administration course(s) |
| JUD++++++ | Any JUD Judicial Studies course(s) |
| LAS++++++ | Any LAS Paralegal Studies course(s) |
| LEO+++++ | Any LEO Law Enforcement Operations course(s) |
| LET++++++ | Any LET Law Enforcement Training course(s) |
| MGT+++++ | Any MGT Management course(s) |
| PAD+++++ | Any PAD Public Administration course(s) |
| PAR+++++ | Any PAR Paralegal course(s) |
| PME+++++ | Any PME Paramedicine course(s) |
| POS++++++ | Any POS Political Science course(s) |
| PSA+++++ | Any PSA Public Safety Administration course(s) |
| PSY++++++ | Any PSY Psychology course(s) |
| SOC+++++ | Any SOC Sociology course(s) |

Arizona General Education Curriculum (AGEC) AGEC-A: 12-39 Credits
A single course with an [HU], [SB], [L], or [SQ]/[SG] designation may also be used to satisfy the Oral Communication, Critical Reading, or Awareness Area ([C], [G] and/or [H]) requirement(s). See the AGEC matrix on aztransfer.com for course designations.

## First-Year Composition [FYC]:

ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) OR
ENG108
First-Year Composition for ESL + $\qquad$
*FYC may be met with fewer than 6 credits if student has transfer credit from ASU, NAU or UAZ for a single course that meets FYC in full.

## Literacy and Critical Inquiry [L]:

Any approved general education course in the Literacy and Critical Inquiry [L] area. .3

Mathematics [MA]:

MAT140
MAT141
MAT142
MAT145 College Mathematics with Review (5) OR
MAT146 College Mathematics with Review (6) OR
Higher level course in the Mathematical Applications [MA] area. 0-6
May be met by MAT150, MAT151, MAT152 AND MAT182, or MAT187 in Restricted Elective Courses.

Computer/Statistics/Quantitative Applications [CS]:
MAT206
Elements of Statistics + (3) OR
PSY230 Introduction to Statistics + (3) OR
PSY230 Introduction to Statistics + (3) AND
PSY231 Laboratory for Statistics + (1) OR
PSY230WL Introduction to Statistics with Lab + (4) OR
SWU225 Statistics for Social Research/Justice and Government + (3)
Humanities, Arts and Design [HU]:Any approved general education courses in the Humanities, Arts and Design [HU] area3-6
Social-Behavioral Sciences [SB]:
Any approved general education courses in the Social-Behavioral Sciences [SB] area ..... 0-6
May be met by AJS101, AJS225, AJS200, AJS/EMT/FSC258, PSY101, SOC101 in Restricted Elective Courses.
Natural Sciences:
Any approved general education course in the Natural Sciences (Quantitative) [SQ] area ..... 4
AND
Any approved general education course in the Natural Sciences (Quantitative) [SQ] area or the Natural Sciences (General) [SG] area (4). ..... 0-8
May be met by BIO160, CHM151 and CHM151LL, PHY111, PHY112 in Restricted Elective Courses.
Awareness Area Credits ..... 0-6
These requirements may be shared with Core Requirements.
Cultural Diversity in the US [C]:
Any approved general education course with the Cultural Diversity in the U.S. [C] awareness area designation ..... 0-3
Historical/Global Awareness [H]/[G]:
Any approved general education course with the Historical [H] or Global [G] awareness area designation ..... 0-3
MCCCD Additional Requirements ..... 0-3
Courses in this area may also be applied to the AGEC Core Requirements. To minimize totalcredits required for degree and maximize transferable credits, it is recommended that courses beselected that meet more than one requirement wherever possible. Oral Communication (COM):
COM100 Introduction to Human Communication (3) ORCOM110 Interpersonal Communication (3) ORCOM225 Public Speaking + (3) ORCOM230 Small Group Communication (3). 3
COM263 Elements of Intercultural Communication (3) ..... 3
May be met by COM100, COM225, or COM230 in Restricted Elective Courses.

## General Electives:

Select courses 100-level or higher to complete a minimum of 120 semester credits. Consult with a faculty advisor, program director, and/or academic advisor to identify coursework that best aligns with academic and professional goals 0-38
ACC+++++ Any ACC Accounting course(s)
AJS+++++ Any AJS Administration of Justice Studies course(s)
CWE+++++ Any CWE Career Work Experience course(s)
DPR+++++ Any DPR Disaster Preparedness and Emergency Response course(s)
ECN+++++ Any ECN Economics course(s)
EMT+++++ Any EMT Emergency Medical Technology course(s)

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

| FOR++++++ | Any FOR Forensic Science course(s) |
| :--- | :--- |
| FSC++++++ | Any FSC Fire Science Technology course(s) |
| GBS+++++ | Any GBS General Business course(s) |
| HCC+++++ | Any HCC Health Core Curriculum course(s) |
| HCR+++++ | Any HCR Health Care Related course(s) |
| JAS+++++ | Any JAS Justice and Government Agencies Administration course(s) |
| JUD+++++ | Any JUD Judicial Studies course(s) |
| LAS+++++ | Any LAS Paralegal Studies course(s) |
| LET++++++ | Any LET Law Enforcement Training course(s) |
| MGT+++++ | Any MGT Management course(s) |
| PAD+++++ | Any PAD Public Administration course(s) |
| PAR+++++ | Any PAR Paralegal course(s) |
| PME+++++ | Any PME Paramedicine course(s) |
| POS++++++ | Any POS Political Science course(s) |
| PSA+++++ | Any PSA Public Safety Administration course(s) |
| PSY++++++ | Any PSY Psychology course(s) |
| SOC+++++ | Any SOC Sociology course(s) |

CONTACT: Mr. B. Williams, Department Chair:
(602) 285.7234 and/or
bill.williams@phoenixcollege.edu
Terrorism Liaison Training: Level I
Certificate of Completion - CCL 5240N

## 5 Credits

The Certificate of Completion (CCL) in Terrorism Liaison Training: Level I program is designed to provide students with the knowledge and skills needed to be a Terrorism Liaison Officer including conduct threat assessments for terrorism, natural and man-made disasters and to assess, investigate and respond to terrorism incidents. Also provides criminal justice and fire science professionals with an opportunity for academic growth and the development of specialized skills in homeland security.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program.

Admission Criteria: This program is offered through an educational partnership. Employment by a governmental organization is required for admission.

Program Prerequisites: None.
Required Courses: 5 Credits
AJS/FSC276 Terrorism Liaison + ................................................................................ 4
AJS/FSC277 Threat Vulnerability Assessment +........................................................... 1
Restricted Electives: None.

CONTACT: Mr. B. Williams, Department Chair: (602) 285.7234 and/or bill.williams@phoenixcollege.edu

## Terrorism Liaison Training: Level II <br> Certificate of Completion - CCL 5253 <br> 9-14 Credits

The Certificate of Completion (CCL) in Terrorism Liaison Training: Level II program is designed to provide additional knowledge and skills needed to be a Terrorism Liaison Officer for criminal justice and fire science professionals seeking advancement in the field of homeland security. Including but not limited to threat assessment for terrorism, hostile intent, hazmat materials used by terrorists, and the assessment, investigation and responses to terrorism incidents.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program.

Admission Criteria: This program is offered through an educational partnership. Employment by a governmental organization is required for admission.

Program Prerequisites: None.
Required Courses: 9-14 Credits
The following courses are required and included in CCL Terrorism Liaison Training: Level I:
AJS/FSC276 Terrorism Liaison + (4) AND
AJS/FSC277 Threat Vulnerability Assessment + (1) OR
Permission of Program Director ......................................................... 0-5
The following courses are required and included in CCL Terrorism Liaison Training: Level II:
AJS/FSC278
Hostile Intent and Intervention Training +. .. 2
AJS/FSC279
Field Intelligence Team Training + .. 3

AJS/FSC280
Terrorism Hazmat First Responder Training + 4

Restricted Electives: None.

CONTACT: Mr. B. Williams, Department Chair: (602) 285.7234 and/or bill.williams@phoenixcollege.edu

## Victimology <br> Certificate of Completion - CCL 5392N 15 Credits

The Certificate of Completion (CCL) in Victimology is designed for students who are interested in pursuing a course of study specifically focused on crisis intervention, community services, and victim rights. It is one pathway to the Associate in Applied Science (AAS) in Administration of Justice.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 15 Credits
AJS101 Introduction to Criminal Justice................................................................ 3
AJS162 Domestic Violence.................................................................................. 3
AJS225 Criminology ............................................................................................ 3
AJS255 Crime, Law and Mental Health................................................................ 3
AJS/EMT/FSC258 Victimology and Crisis Management in Public Safety............................... 3
Restricted Electives: None.

## Business, Entrepreneurialism, and Management

CONTACT: Mr. D. Northway, Program Director:
https://www.phoenixcollege.edu/business

## Accounting

Associate in Applied Science - AAS 3149

## 62-73 Credits

The Associate in Applied Science (AAS) in Accounting program is one of several options for students seeking to gain skills and knowledge in the field of accounting. Possible entry-level jobs for this program include accounting clerk, accounts payable/receivable clerk, claims clerk, credit clerk, fullcharge bookkeeper, accounting intern, or comparable positions. A Certificate of Completion (CCL) is also available.

Program Notes: Students must earn a grade of C or better in all courses required within the program. Consultation with an Academic Advisor is recommended for course selection.

## Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 34-39 Credits

| ACC111 | Accounting Principles I (3) AND |
| :--- | :--- |
| ACC230 | Uses of Accounting Information I + (3) AND |
| ACC240 | Uses of Accounting Information II + (3) |
| OR |  |

OR
ACC111 Accounting Principles I (3) AND
ACC112 Accounting Principles II + (3) AND
ACC212 Managerial Accounting + (3)
OR
ACC211 Financial Accounting (3) AND
ACC212 Managerial Accounting + (3).6-9

ACC105

Payroll, Sales and Property Taxes (3) OR

Payroll Accounting + (3) ..... 3
ACC115 Computerized Accounting + ..... 3
ACC121 Income Tax Preparation (3) OR
ACC221 Tax Accounting + (3) ..... 3
ACC219 Intermediate Accounting I +. ..... 3
CIS114DE Excel Spreadsheet .....  3
CIS105 Survey of Computer Information Systems ..... 3
FYE101 Introduction to College, Career and Personal Success (1) OR ..... FYE103
Exploration of College, Career and Personal Success (3) ..... 1-3
GBS151 Introduction to Business ..... 3
GBS205 Legal, Ethical, and Regulatory Issues in Business ..... 3
GBS120 Workplace Communication Skills (3) OR
GBS233 Business Communication + (3) ..... 3
Restricted Electives: 6 Credits
Students must select six (6) credits from the list below:
ACC+++++ Any additional ACC Accounting course(s) except
ACC111, ACC112, ACC211, ACC212, ACC230, ACC240 ..... 0-6
GBS131 Business Calculations .....  3
GBS220 Quantitative Methods in Business + .....  3
GBS221 Business Statistics + ..... 3
GBS261 Investments I. ..... 3
MGT101 Techniques of Supervision (3) OR
Business Organization and Management (3) OR Management and Leadership I (3) ..... 3
General Education Requirements: 22-28 Credits
CORE: 12-18 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) orENG107 First-Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) orENG108 First-Year Composition for ESL + (3) 6
Oral Communication:
COM100 Introduction to Human Communication (3) OR
COM110 Interpersonal Communication (3) OR
COM225 Public Speaking + (3) OR
COM230 Small Group Communication (3) ..... 3
Critical Reading: CRE101 College Critical Reading and Critical Thinking + (3) OR
Equivalent as indicated by assessment (0) ..... 0-3
Mathematics:
Any approved general education course from the Mathematics [MA] area ..... 3-6
DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Any approved general education course from the Humanities, Arts and Design [HU] area ..... 3
Social-Behavioral Sciences:
ECN211 Macroeconomic Principles (3) ORECN212 Microeconomic Principles (3) ORSBU200Society and Business (3)3
Natural Sciences:
Any approved general education course from the Natural Sciences area ..... 4

CONTACT: Mr. D. Northway, Program Director:
https://www.phoenixcollege.edu/business

## Accounting

Certificate of Completion - CCL 5665 24-27 Credits
The Certificate of Completion (CCL) in Accounting program is designed for students seeking to gain skills and knowledge in the field of accounting and tax. Possible entry-level positions for this program include accounting clerk, accounts payable/receivable clerk, claims clerk, credit clerk, bookkeeper, accounting intern, or comparable positions. An Associate in Applied Science (AAS) in Accounting and a Certificate of Completion (CCL) in Enrolled Agent are also available.

Program Notes: Students must earn a grade of C or better in all courses in the program. Consultation with an Academic Advisor is recommended for course selection.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 24-27 Credits
$\begin{array}{ll}\text { ACC111 } & \text { Accounting Principles I (3) AND } \\ \text { ACC230 } & \text { Uses of Accounting Information I + (3) AND }\end{array}$
ACC240 Uses of Accounting Information II + (3)
OR
ACC111 Accounting Principles I (3) AND
ACC112 Accounting Principles II + (3) AND
ACC212 Managerial Accounting + (3) OR
ACC211 Financial Accounting (3) AND
ACC212 Managerial Accounting + (3).

| ACC105 | Payroll, Sales and Property Taxes (3) OR |
| :--- | :--- |
| ACC222 | Payroll Accounting $+(3) \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~$ | 3

$\begin{array}{ll}\text { ACC121 } & \text { Income Tax Preparation (3) OR } \\ \text { ACC221 } & \text { Tax Accounting + (3) .............................................................................. } 3\end{array}$
ACC115 Computerized Accounting +.................................................................... 3
CIS114DE Excel Spreadsheet ................................................................................... 3
CIS105 Survey of Computer Information Systems ................................................ 3
GBS151 Introduction to Business......................................................................... 3

CONTACT: Ms. S. Celaya, Program Director:
https://www.phoenixcollege.edu/business

## Administrative Professional <br> Associate in Applied Science - AAS 3680 <br> 62-70 Credits

The Associate in Applied Science (AAS) in the Administrative Professional degree is designed to provide training for various office positions. The curriculum incorporates people and technological skills essential for job success. Includes instruction in business communications, office procedures, public relations, accounting, records management, and report preparation. A Certificate of Completion (CCL) in Administrative Professional is also available.

Program Notes: Students must earn a grade of C or better in all courses required within the program. + indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

## Admission Criteria: None

## Program Prerequisites: None

Required Courses: 25-27 Credits
BPC10 Computer Usage and Applications (3) OR
CIS105 Survey of Computer Information Systems (3) ..... 3
ACC115 Computerized Accounting + ..... 3
CIS113DE Microsoft Word: Word Processing ..... 3
CIS114DE Excel Spreadsheet ..... 3
FYE101 Introduction to College, Career and Personal Success (1) OR FYE103 Exploration of College, Career and Personal Success (3) ..... 1-3
GBS120 Workplace Communication Skills .....  3
GBS131 Business Calculations .....  3
GBS151 Introduction to Business ..... 3
Select three (3) of the following courses:
BPC101AA Introduction to Computers I. .....  1
BPC/OAS111AA Computer Keyboarding I ..... 1
CIS121AE Windows Operating System: Level I ..... 1
CIS121AI Mac Operating System ..... 1
CIS122AE Windows Operating System: Level II + ..... 1
CIS133AA Internet/Web Development Level I-A .....  1
Restricted Electives: 15 Credits
Students should select fifteen (15) credits from the following courses, except courses used to satisfy theRequired Courses area, in consultation with a program advisor:
ACC+++ Any ACC Accounting prefixed course (except ACC115) .....  3
MGT251 Human Relations in Business ..... 3
MGT126 Customer Service Skills and Strategies .....  3
CIS133DA Internet/ Web Development: Level I ..... 3
CIS214DE Advanced Excel Spreadsheet: Level II .....  3

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
CIS103 Introduction to Social Media ..... 3
MKT110 Marketing and Social Networking ..... 3
CIS117DM Microsoft Access: Database Management .....  3
GBS205 Legal, Ethical, and Regulatory Issues in Business ..... 3
MKT271 Principles of Marketing .....  3
General Education Requirements: 22-28 Credits
CORE: 12-18 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) ORENG108 First-Year Composition for ESL + (3)6
Oral Communication:
COM100 Introduction to Human Communication (3) OR
COM110 Interpersonal Communication (3) OR
COM225 Public Speaking + (3) OR
COM230 Small Group Communication (3) ..... 3
Critical Reading:
Any approved general education course from the Critical Reading area OR Equivalent as indicated by assessment ..... 0-3
Mathematics:
Any approved general education course from the Mathematics area OR Equivalent as indicated by assessment ..... 3-6
DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Any approved general education course from the Humanities, Arts and Design area ..... 3
Social-Behavioral Sciences:
SBU200 Society and Business .....  3
Natural Sciences:
Any approved general education course from the Natural Sciences area ..... 4

CONTACT: Ms. S. Celaya, Program Director:
https://www.phoenixcollege.edu/business

## Administrative Professional Certificate of Completion - CCL 5677 18 Credits

The Certificate of Completion (CCL) in the Administrative Professional program is designed to provide students with basic office skills. This program is recommended for students with little or no officerelated work experience or college experience. Includes instruction in business communications, office procedures, and report preparation. An Associate in Applied Science (AAS) in Administrative Professional is available.

Program Notes: Students must earn a grade of C or better in all courses required within the program.
Admission Criteria: NoneProgram Prerequisites: NoneRequired Courses: 18 CreditsBPC110 Computer Usage and Applications (3) OR
CIS105 Survey of Computer Information Systems (3) ..... 3
CIS113DE Microsoft Word: Word Processing ..... 3
GBS120 Workplace Communication Skills. ..... 3
GBS131 Business Calculations ..... 3
GBS151 Introduction to Business .....  3
Select three (3) of the following courses:
BPC101AA Introduction to Computers I. ..... 1
BPC/OAS111AA Computer Keyboarding I .....  1
CIS121AE Windows Operating System: Level I ..... 1
CIS121AI Mac Operating System ..... 1
CIS122AE Windows Operating System: Level II + ..... 1
CIS133AA Internet/Web Development Level I-A ..... 1
Restricted Electives: None
General Electives: None

CONTACT: Mr. D. Northway, Program Director:
https://www.phoenixcollege.edu/business

## Banking and Finance <br> Associate in Applied Science - AAS 3091 <br> 62-69 Credits

The Associate in Applied Science (AAS) in Banking and Finance program has been developed in cooperation with the Central Arizona Chapter of the American Institute of Banking and the Institute of Financial Education for entry or advancement in the banking profession. The program is designed to prepare students for the many challenges of the world of finance, since the role of the modern banker today demands specialized knowledge, flexible job performance, communication skills and customer service. A Certificate of Completion (CCL) in Banking and Finance is available.

Program Notes: Students must earn a grade of C or better in all courses required within the program.
Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 31-33 Credits

ACC111 Accounting Principles I ........................................................................... 3
ACC112 Accounting Principles II + ....................................................................... 3
CIS105 Survey of Computer Information Systems ................................................ 3
FYE101 Introduction to College, Career and Personal Success (1) OR
FYE103 Exploration of College, Career and Personal Success (3) .......................1-3
GBS103 Principles of Banking.............................................................................. 3
GBS120 Workplace Communication Skills............................................................ 3
GBS131 Business Calculations............................................................................... 3
GBS151 Introduction to Business ........................................................................... 3
GBS205 Legal, Ethical, and Regulatory Issues in Business..................................... 3
GBS294 Consumer Credit..................................................................................... 3
MGT126 Customer Service Skills and Strategies ..................................................... 3
Restricted Electives: 9 Credits
ACC212 Managerial Accounting +3

ACC270AC Accounting Internship + (3) OR

GBS270AC Business Internship + (3) ..... 3

CIS114DE

Excel Spreadsheet

.3

GBS206 Business Law (UCC).............................................................................. 3
GBS207 Business Law (General Corporate) .......................................................... 3
GBS261
Investments I.
.3

MKT267
Principles of Sales (3) OR
MKT271
Principles of Marketing (3)3

General Education Requirements: 22-27 Credits
CORE: 12-17 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) OR
ENG108 First-Year Composition for ESL + (3) ..................................................... 6
Oral Communication:
COM100 Introduction to Human Communication (3) OR
COM110 Interpersonal Communication (3) OR
COM225 Public Speaking + (3) OR
COM230 Small Group Communication (3) ............................................................ 3
Critical Reading:
CRE101
College Critical Reading and Critical Thinking + (3) OR
Equivalent as indicated by assessment0-3

## Mathematics:

Any approved general education course from the Mathematics area3-5

DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Any approved general education course from the Humanities, Arts and Design area ................... 3
Social-Behavioral Sciences:
ECN211 Macroeconomic Principles (3) OR
ECN212 Microeconomic Principles (3) OR
SBU200 Society and Business (3) ......................................................................... 3
Natural Sciences:
Any approved general education course from the Natural Sciences area.4

CONTACT: Mr. D. Northway, Program Director:
https://www.phoenixcollege.edu/business

Banking and Finance<br>Certificate of Completion - CCL 5627<br>27 Credits<br>The Certificate of Completion (CCL) in Banking and Finance program has been developed for entry or advancement in the banking profession. The program is designed to prepare students for the many challenges of the world of finance, since the role of the modern banker today demands specialized knowledge, flexible job performance, and customer service expertise. An Associate in Applied Science (AAS) in Banking and Finance is available.

Program Notes: Students must earn a grade of C or better in all courses within the program.
Admission Criteria: None.

## Program Prerequisites: None.

Required Courses: 27 Credits
ACC111 Accounting Principles I......................................................................... 3
ACC112 Accounting Principles II +...................................................................... 3
CIS105 Survey of Computer Information Systems ............................................... 3
GBS103 Principles of Banking.............................................................................. 3
GBS131 Business Calculations.............................................................................. 3
GBS151 Introduction to Business........................................................................... 3
GBS205 Legal, Ethical, and Regulatory Issues in Business...................................... 3
GBS294 Consumer Credit ..................................................................................... 3
MGT126 Customer Service Skills and Strategies .................................................... 3
Restricted Electives: None.

CONTACT: Mr. D. Dopp, Department Chair https://www.phoenixcollege.edu/business

## Business Administration Fastrack

Certificate of Completion - CCL 5152
27 Credits
The Certificate of Completion (CCL) in Business Administration Fastrack program provides opportunities for individuals to update, upgrade, or develop essential business skills. The program's focus is preparing students for job advancement and career opportunities in today's business environment as defined by industry practitioners. Each course includes learning activities and projects which may be offered in an accelerated five-week or eight-week format. Additional features of the program include: student directed learning stressing the dynamic business environment, communication skills, leadership development, and performing effectively within a team environment.

Program Notes: Students must earn a grade of C or better for all courses in the program. + indicates course has prerequisites and/or corequisites.

## Admission Criteria: None

## Program Prerequisites: None

Required Courses: 27 Credits
ACC110 Understanding and Using Accounting Systems (3) OR
ACC111 Accounting Principles I (3).
$\begin{array}{ll}\text { BPC110 } & \text { Computer Usage and Applications (3) OR } \\ \text { CIS105 } & \text { Survey of Computer Information Systems (3) } \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots\end{array}$
GBS120 Workplace Communication Skills........................................................... 3
GBS151 Introduction to Business ............................................................................ 3
GBS205 Legal, Ethical, and Regulatory Issues in Business..................................................................................... 3
MGT126 Customer Service Skills and Strategies .................................................... 3
MGT175 Business Organization and Management.................................................. 3
MGT251 Human Relations in Business ................................................................... 3
MKT271 Principles of Marketing ........................................................................... 3
Restricted Electives: None

CONTACT: Mr. M. Sassetti, Program Director:
https://www.phoenixcollege.edu/business

## Certified Bookkeeping

Certificate of Completion - CCL 5977N
9 Credits
The Certificate of Completion (CCL) in Certified Bookkeeping program helps to prepare students for a Certified Bookkeeper Examination. This program is designed to prepare students to work for CPA firms, tax preparation firms, corporate accounting departments, and small businesses or offer freelance bookkeeping services. A Certificate of Completion (CCL) in Accounting and an Associate in Applied Science (AAS) in Accounting are also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in each course in the program.

Admission Criteria: None
Program Prerequisites: None
Required Courses: 9 Credits

ACC105
ACC222
ACC111 Accounting Principles I ........................................................................... 3
ACC260
Restricted Electives: None

CONTACT: Ms. S. Green, Program Director: (602) 285.7894 and/or
stephanie.green@phoenixcollege.edu

## Commercial Baking and Pastry

Certificate of Completion - CCL 5788

## 18-20 Credits

The Certificate of Completion (CCL) in Commercial Baking and Pastry is designed to train students for entry-level positions in diverse food service operations. The program focuses on the preparation of classic and modern desserts, artisan and specialty breads, breakfast pastries, decorative showpieces and special occasion cakes. Students are exposed to all areas of a professional baking environment that includes baking techniques, safety and sanitation, food service management, professionalism and ethics, teamwork and communication.

Program Notes: Students must earn a grade of C or better in all courses within the program. Students with transfer credits must meet with an advisor to initiate the review process. Students must obtain a Maricopa County Food Handlers Card before the start of required courses, and must maintain the card throughout the program.

Admission Criteria: Students must meet with an Academic/Career Advisor. Placement into collegeready level English, Reading, and Math or completion of equivalent coursework.

## Program Prerequisites: None

Required Courses: 18-20 CreditsCUL113 Commercial Baking Techniques3
CUL115 Food Service Sanitation, Safety and Stewarding (2) OR ServSafe food protection manager certification (0) ..... 0-2
CUL119 Baking Theory and Retail Operations (3) OR
CUL223 Food Service Management (3) ..... 3
CUL127 Classical Desserts + .....  3
CUL137 Specialty Breads and Breakfast Pastry ..... 3
CUL215 Advanced Pastry Arts + (3) ORCUL217 Wedding Cake Production + (3)3
CUL219 Professional Pastry Techniques + ..... 3
Restricted Electives: None.

CONTACT: M. Sassetti, Program Director:
https://www.phoenixcollege.edu/business

## Enrolled Agent <br> Certificate of Completion - CCL 5958 17-18 Credits

The Certificate of Completion (CCL) in Enrolled Agent program helps to prepare students for the Enrolled Agent Examination. The Internal Revenue Service (IRS) Enrolled Agent credential allows tax practitioners to represent taxpayers before the IRS when it comes to collections, audits, and appeals. Enrolled Agents' expertise in the continually changing field of taxation enables them to effectively represent taxpayers at all administrative levels within the IRS. Students who successfully complete this CCL may also seek employment as tax preparers.

Program Notes: Students must earn a grade of C or better in all courses in the program. Consultation with an Academic Advisor is recommended for course selection. The Volunteer Income Tax Assistance (VITA) program internship is only available in the spring semester. Contact a program advisor for more information.
Admission Criteria: None.Program Prerequisites: None.
Required Courses: 15 Credits
ACC111 Accounting Principles I (3) OR ACC211 Financial Accounting (3) ..... 3
ACC121 Income Tax Preparation ..... 3
ACC221 Tax Accounting + ..... 3
ACC224 Tax Practice Administration and Business Entity Analysis +. ..... 3
CIS105 Survey of Computer Information Systems ..... 3
Restricted Electives: 2-3 CreditsStudents should select 2-3 credits from the list below:
ACC105 Payroll, Sales and Property Taxes ..... 3
ACC111 Accounting Principles II + ..... 3
ACC115 Computerized Accounting + .....  3
ACC222 Payroll Accounting + .....  3
ACC230 Uses of Accounting Information I + .....  3
ACC270AB Accounting Internship + ..... 2
ACC270AC Accounting Internship + ..... 3

CONTACT: Mr. D. Dopp, Department Chair https://www.phoenixcollege.edu/business

## Entrepreneurial Studies Level I <br> Certificate of Completion - CCL 5819N <br> 10-11 Credits <br> The Certificate of Completion (CCL) in Entrepreneurial Studies Level I program is designed to provide students with an introduction to the entrepreneurial process. Courses include a history of entrepreneurship, current research into its impacts on society, types of business start- up opportunities, and creating a preliminary business plan, as well as securing a healthy financial future. A Certificate of Completion (CCL) in Entrepreneurial Studies Level II is also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses within the program.

Admission Criteria: None

Program Prerequisites: None
Required Courses: 10-11 Credits
EPS150 Introduction to Entrepreneurship............................................................... 3
EPS160 New Venture Creation.............................................................................. 2
EPS162 Introduction to Social Entrepreneurship (3) OR
EPS195 Business Start-Up and Planning (2) ......................................................2-3
GBS/HEC132 Personal and Family Financial Security ................................................... 3

## Restricted Electives: None.

CONTACT: Mr. D. Dopp, Department Chair: https://www.phoenixcollege.edu/business

## Entrepreneurial Studies Level II Certificate of Completion - CCL 5820 18-19 Credits

The Certificate of Completion (CCL) in Entrepreneurial Studies Level II program is designed to prepare students to acquire additional skills, tools and knowledge necessary for successful venture opportunities. A Certificate of Completion (CCL) in Entrepreneurial Studies Level I is also available and fully embedded in this program.

Program Notes: Students must earn a grade of C or better for all courses within the program.
Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 18-19 Credits
EPS150 Introduction to Entrepreneurship............................................................... 3
EPS160 New Venture Creation.............................................................................. 2
$\begin{array}{ll}\text { EPS162 } & \text { Introduction to Social Entrepreneurship (3) OR } \\ \text { EPS195 } & \text { Business Start-Up and Planning (2) ......................................................2-3 }\end{array}$
GBS132 Personal and Family Financial Security ................................................... 3
$\begin{array}{ll}\text { EPS161 } & \text { New Venture Law and Finance (3) OR } \\ \text { EPS180 } & \text { Technology Business Planning (3)............................................................ } 3\end{array}$
EPS165 New Venture Feasibility Analysis............................................................ 2
MGT253
Owning and Operating a Small Business
Restricted Electives: None.

CONTACT: Mr. D. Dopp, Department Chair:
https://www.phoenixcollege.edu/business

## Esports <br> Certificate of Completion - CCL 5335 <br> 18 Credits

The Certificate of Completion (CCL) in Esports is designed for students pursuing careers in hospitality, marketing, business, management, event management, creative writing, computer technology, and/or video game production who are interested in utilizing those skills to gain entry level employment in the field of esports. Students completing this certificate will acquire specialized knowledge of the field of esports that will enhance the ability to gain entry level employment in the world of esports.

Program Notes: Students must earn a grade of C or better in each course in the program.
Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 15 Credits

| BPC170 | A+ Exam Prep: Computer Hardware Configuration and Support.............. 3 |
| :--- | :--- |
| CIS120DA | Introduction to Adobe Premiere (3) OR |
| CIS120DK | Introduction to Digital Video Editing (3).................................................. 3 |


| COM100 | Introduction to Human Communication (3) OR |
| :--- | :--- |
| COM110 | Interpersonal Communication (3) OR |
| COM230 | Small Group Communication (3)............................................................. 3 |

GBS109 Introduction to Business Practices in Esports............................................ 3
MKT110 Marketing and Social Networking............................................................ 3
Restricted Electives: 3 Credits
Complete courses as directed, choosing options that best align with your academic and professional goals. Consult with an academic, faculty, or program advisor to prevent exceeding your award's maximum credits.
ACC105
Payroll, Sales and Property Taxes3
ACC111 Accounting Principles I ..... 3
CIS111 Ethics in Information Technology .....  3
CRW150 Introduction to Creative Writing ..... 3
CRW176 Writing Narrative for Video Games ..... 3
CRW190 Introduction to Screenwriting ..... 3
ENH110 Introduction to Literature .....  3
ENH140AA Sports in Literature and Film + .....  3
GBS151 Introduction to Business ..... 3
MGT175 Business Organizational Management. ..... 3
MGT229 Management and Leadership I ..... 3
MGT253 Owning and Operating a Small Business ..... 3
MKT101 Introduction to Public Relations ..... 3
MKT111 A pplied Marketing and Social Networking + .....  3
MKT271 Principles of Marketing .....  3

CONTACT: Ms. S. Celaya, Program Director:
https://www.phoenixcollege.edu/business

## Fashion Merchandising <br> Associate in Applied Science - AAS 3266 <br> 62-72 Credits

The Associate in Applied Science (AAS) in Fashion Merchandising program places students at the intersection of fashion, business and marketing. Our curriculum stresses the importance of leadership, teamwork, creativity, and effective communication throughout the product life cycle process. Students will leave this program equipped with knowledge of fashion theory; the societal and technological aspects of the textile and apparel industry; and the creation, promotion, distribution, and retailing of consumer goods in a global environment. This program provides a foundation for students to pursue a wide range of careers in the fashion industry. A Certificate of Completion (CCL) in Fashion Merchandising program is also available.

Program Notes: Students must earn a grade of C or better in all courses within the program.

## Admission Criteria: None.

## Program Prerequisites: None.

$\left.\begin{array}{ll}\text { Required Courses: } & \text { 28-30 Credits } \\ \text { BPC110 } \\ \text { Computer Usage and Applications (3) OR } \\ \text { CIS105 } & \text { Survey of Computer Information Systems (3) ............................ } 3\end{array}\right\}$

General Electives: None.
General Education Requirements: 22-28 CreditsCORE: 12-18 CreditsFirst-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) AND
First-Year Composition + (3) OR
First-Year Composition for ESL + (3) ..... 6
ENG102
Oral Communication:
COM100 Introduction to Human Communication (3) ORCOM110 Interpersonal Communication (3) ORCOM225 Public Speaking + (3) OR
COM230 Small Group Communication (3) ..... 3
Critical Reading:
CRE101 College Critical Reading and Critical Thinking + (3) OR
Equivalent as indicated by assessment (0) ..... 0-3
Mathematics:
Any approved general education course from the Mathematics [MA] area ..... 3-6
DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
TEC105 Cultural Aspects of Clothing ..... 3
Social-Behavioral Sciences:
SBU200 Society and Business ..... 3
Natural Sciences:
Any approved general education course from the Natural Sciences area4

CONTACT: Ms. S. Celaya, Program Director:
https://www.phoenixcollege.edu/business

## Fashion Merchandising Certificate of Completion - CCL 5266 24 Credits <br> The Certificate of Completion (CCL) in Fashion Merchandising program is designed for students whose personal interests and needs can be met by concentration on a core program of Fashion Merchandising courses. This program is designed to develop competencies essential for success in a variety of occupations including retail buying, management, store planning, visual display, and wholesale merchandising. An Associate in Applied Science (AAS) degree is also available.

Program Notes: Students must earn a grade of C or better in all courses required within the program.
Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 21 Credits

| BPC110 | Computer Usage and Applications (3) OR |
| :--- | :--- |
| CIS105 | Survey of Computer Information Systems (3)........................................... 3 |

MKT/TEC109 Introduction to Fashion Merchandising.................................................... 3
MKT/TEC151 Display and Visual Merchandising............................................................ 3
MKT/TEC200 Retail Buying ........................................................................................ 3
MKT268 Merchandising......................................................................................... 3
MKT271 Principles of Marketing ........................................................................... 3
TEC222 Textiles ................................................................................................... 3
Restricted Electives: 3 Credits
Students should select from the following courses in consultation with a Department Advisor:
MKT+++++
Any MKT Marketing course except courses used to satisfy Required Courses area
TEC+++++ Any TEC Textiles and Clothing course except courses used to satisfy Required Courses area.3

General Electives: None.

CONTACT: Mr. D. Dopp, Department Chair: https://www.phoenixcollege.edu/business

## General Business <br> Associate in Applied Science - AAS 3148 <br> 62-69 Credits

The Associate in Applied Science (AAS) in General Business program is designed to meet the needs of students who wish a broad overview of business and desire not to enroll in a specialized curriculum in business. The program is designed to acquaint students with major subject areas of business, to improve the student's business vocabulary, and to provide students with an understanding of influencing factors in business decision making and activities. In addition, this program may aid a student in recognizing a specific business field to be pursued in future studies. Although many courses will transfer to a four-year institution, some courses do not. This curriculum is not designed to meet the needs of students who wish to transfer to a four-year institution. A Certificate of Completion (CCL) in General Business is available.

Program Notes: Students must earn a grade of C or better in all courses in the program.
Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 22-24 Credits
ACC111 Accounting Principles I........................................................................... 3
CIS105 Survey of Computer Information Systems ............................................... 3
$\begin{array}{ll}\text { FYE101 } & \text { Introduction to College, Career and Personal Success (1) OR } \\ \text { FYE103 } & \text { Exploration of College, Career and Personal Success (3) ......................1-3 }\end{array}$
$\begin{array}{ll}\text { GBS120 } & \text { Workplace Communication Skills (3) OR } \\ \text { GBS233 } & \text { Business Communication }+(3) \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~\end{array} 3$
GBS151 Introduction to Business ............................................................................ 3
GBS205 Legal, Ethical and Regulatory Issues in Business..................................... 3
MGT175 Business Organization and Management (3) OR
MGT251 Human Relations in Business (3) ............................................................ 3
MKT271 Principles of Marketing ............................................................................ 3
Restricted Electives: 18 Credits
Students should select eighteen (18) credits from the following courses. Any 100/200 level prefixed courses may be selected, except courses used to satisfy the Required Courses area.
ACC+++++ Any ACC Accounting course(s)
CIS114DE Excel Spreadsheet
CIS117DM Microsoft Access: Database Management................................................ 3
CIS133DA Internet/Web Development Level I ......................................................... 3
EPS+++++ Any EPS Entrepreneurial Studies course(s)
GBS++++++ Any GBS General Business course(s)
IBS++++++ Any IBS International Business course(s)

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

| MGT+++++ | Any MGT Management course(s) |
| :--- | :--- |
| MKT+++++ | Any MKT Marketing course(s) |
| REA+++++ | Any REA Real Estate course(s) |
| SBS+++++ | Any SBS Small Business Management course(s) |
| TQM+++ | Any TQM Total Quality Management course(s) |

General Electives: None.
General Education Requirements: 22-27 Credits
CORE: 12-17 Credits
First-Year Composition:
$\begin{array}{ll}\text { ENG101 } & \text { First-Year Composition (3) + OR } \\ \text { ENG107 } & \text { First-Year Composition for ESL (3) + AND } \\ \text { ENG102 } & \text { First-Year Composition (3) + OR } \\ \text { ENG108 } & \text { First-Year Composition for ESL (3) + ..................................................... } 6\end{array}$
Oral Communication:
COM100 Introduction to Human Communication (3)
COM110 Interpersonal Communication (3)
COM225 Public Speaking + (3) OR
COM230 Small Group Communication (3)............................................................. 3
Critical Reading:
CRE101 College Critical Reading and Critical Thinking + (3) OR Equivalent by assessment0-3

Mathematics:

Any approved general education course from the Mathematics area3-5

DISTRIBUTION: 10 Credits

Humanities, Arts and Design:
Any approved general education course in the Humanities, Arts and Design area ....................... 3
Social-Behavioral Sciences:
ECN211 Macroeconomic Principles (3) OR
ECN212 Microeconomic Principles (3) OR
SBU200 Society and Business (3) ......................................................................... 3
Natural Sciences:
Any approved general education course in the Natural Sciences area

CONTACT: Mr. D. Dopp, Department Chair: https://www.phoenixcollege.edu/business

## General Business

Certificate of Completion - CCL 5683
21 Credits
The Certificate of Completion (CCL) in General Business is designed to provide business training for various entry-level positions in business. The courses include an introduction to business concepts, accounting and computer principles, and legal issues related to business. An Associate in Applied Science (AAS) is also available.

Program Notes: Students must earn a grade of C or better for all courses in the program.
Admission Criteria: None
Program Prerequisites: None
Required Courses: 12 Credits
ACC111 Accounting Principles I............................................................................. 3
CIS105 Survey of Computer Information Systems ............................................... 3
GBS151 Introduction to Business........................................................................... 3
GBS205 Legal, Ethical, and Regulatory Issues in Business.................................... 3
Restricted Electives: 9 Credits
Students should select nine (9) credits from the following courses. Any 100/200 level prefixed courses may be selected, except courses used to satisfy the Required Courses area.

| ACC+++++ | Any ACC Accounting course(s) |  |
| :---: | :---: | :---: |
| CIS114DE | Excel Spreadsheet |  |
| CIS117DM | Microsoft Access: Database Management | 3 |
| CIS133DA | Internet/Web Development Level I | . 3 |
| EPS+++++ | Any EPS Entrepreneurial Studies course(s). | 1-3 |
| GBS+++++ | Any GBS General Business course(s) |  |
| IBS+++++ | Any IBS International Business course(s) |  |
| MGT+++++ | Any MGT Management course(s) |  |
| MKT+++++ | Any MKT Marketing course(s) |  |
| REA+++++ | Any REA Real Estate course(s) |  |
| SBS+++++ | Any SBS Small Business Management course(s) |  |
| TQM+++ | Any TQM Total Quality Management course(s) |  |

General Electives: None.

CONTACT: Mr. D. Dopp, Department Chair:
https://www.phoenixcollege.edu/business

## Human Resources Management Certificate of Completion - CCL 5580 24 Credits <br> The Certificate of Completion (CCL) in Human Resources Management program is designed to provide skills necessary for careers in human resources management. The program is designed to provide students a series of courses with an emphasis in management and is designed to prepare students for an entry-level position in human resources. Graduates may be employed in Employment (recruiting, interviewing, and hiring); Benefits Administration; Compensation; and Employee Relations.

Program Notes: Students must earn a grade of C or better in all courses required within the program. + indicates course has prerequisites and/or corequisites.

## Admission Criteria: None

Program Prerequisites: None

| Required Courses: <br> BPC110 | 24 Credits |
| :--- | :--- |
| CIS105 | Computer Usage and Applications (3) OR |
| GBS205 | Survey of Computer Information Systems (3)............................... 3 |

## Restricted Electives: None.

General Electives: None.

CONTACT: Mr. D. Dopp, Department Chair: https://www.phoenixcollege.edu/business

## Management <br> Associate in Applied Science - AAS 3070 <br> 62-69 Credits

The Associate in Applied Science (AAS) in Management program is designed to provide skills for management careers. Students completing this program are better equipped to apply competencies needed for successful performance in management occupations such as manufacturing, wholesaling, retailing, and service industries. The Certificate of Completion (CCL) in Management is fully embedded in this AAS. The following Certificates of Completion (CCL) are also available based on chosen restricted electives: Human Resources Management, Project Management, Business Administration, Supervision and Management, and Organizational Leadership.

Program Notes: Students must earn a grade of C or better for all courses required within the program.

## Admission Criteria: None.

## Program Prerequisites: None.

Required Courses: 22-24 CreditsACC111 Accounting Principles I3
BPC110 Computer Usage and Applications (3) OR CIS105 Survey of Computer Information Systems (3) ..... 3
FYE101 Introduction to College, Career and Personal Success (1) OR FYE103 Exploration of College, Career and Personal Success (3) ..... 1-3
GBS120 Workplace Communication Skills ..... 3
GBS151 Introduction to Business ..... 3
GBS205 Legal, Ethical, and Regulatory Issues in Business .....  3
MGT229 Management and Leadership I .....  .3
MGT230 Management and Leadership II + ..... 3
MGT251 Human Relations in Business ..... 3
Restricted Electives: 18 Credits
Students should select eighteen (18) credits from the following courses in consultation with a Department Advisor. Courses cannot be shared with Required Courses. ACC110 Understanding and Using Accounting Systems (3) OR
ACC112 Accounting Principles II + (3) ..... 3
CIS114DE Excel Spreadsheet ..... 3
CIS224 Project Management Microsoft Project for Windows ..... 3
GBS131 Business Calculations .....  3
IBS101 Introduction to International Business ..... 3
MKT271 Principles of Marketing ..... 3
MGT+++ Any MGT Management course(s) (except courses used to satisfy Required Courses area) ..... 3
TQM230 Teamwork Dynamics ..... 2
TQM240 Project Management in Quality Organizations ..... 3
General Electives: None
General Education: 22-27 Credits
CORE: 12-17 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG107 First -Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) OR
ENG108 First-Year Composition for ESL + (3) .....  6
Oral Communication:
COM100 Introduction to Human Communication (3) OR
COM110 Interpersonal Communication (3) OR COM225 Public Speaking + (3) OR
COM230 Small Group Communication (3) ..... 3
Critical Reading:
CRE101 College Critical Reading and Critical Thinking + (3) OR Equivalent as indicated by assessment (0) ..... 0-3
Mathematics:
Any approved general education course from the Mathematics [MA] area. + ..... 3
DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Any approved general education course from the Humanities, Arts and Design [HU] area ..... 3
Social-Behavioral Sciences:
SBU200 Society and Business ..... 3
Natural Sciences:
Any approved general education course in the Natural Sciences (Quantitative) [SQ] area or the Natural Sciences (General) [SG] area ..... 4

CONTACT: Mr. D. Dopp, Department Chair: https://www.phoenixcollege.edu/business

Management<br>Certificate of Completion - CCL 5729<br>18 Credits<br>The Certificate of Completion (CCL) in Management is designed to provide skills for management careers. Students completing this program are better equipped to apply competencies needed for successful performance in management occupations such as manufacturing, wholesaling, retailing, and service industries. An Associate in Applied Science (AAS) in Management is also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program.
Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 18 Credits
ACC111 Principles I.............................................................................................. 3
$\begin{array}{ll}\text { BPC110 } & \text { Computer Usage and Applications (3) OR } \\ \text { CIS105 } & \text { Survey of Computer Information Systems (3) } \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots . . . \begin{array}{l}\end{array}\end{array}$
GBS151 Introduction to Business........................................................................... 3
GBS205 Legal, Ethical, and Regulatory Issues in Business.................................... 3
MGT229 Management and Leadership I................................................................. 3
MGT251 Human Relations in Business ................................................................... 3

CONTACT: Ms. S. Celaya, Program Director:
https://www.phoenixcollege.edu/business

## Marketing <br> Certificate of Completion - CCL 5094 <br> 21 Credits

The Certificate of Completion (CCL) in Marketing program meets students` needs by providing skills necessary for marketing careers. The program is designed to develop competencies essential for success in Marketing. By completing this program, students will be better equipped for successful performance in a variety of marketing/ management occupations including wholesaling, retailing, professional sales, and entrepreneurship. An Associate in Applied Science (AAS) in Marketing and Sales is available.

Program Notes: Students must earn a grade of C or better for all courses required within the program.
Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 18 Credits

| BPC110 | Computer Usage and Applications (3) OR |
| :---: | :---: |
| CIS105 | Survey of Computer Information Systems (3)......................... 3 |
| GBS120 | Workplace Communication Skills.................................................... 3 |
| GBS151 | Introduction to Business . |
| MKT263 | Advertising Principles ................................................................... 3 |
| MKT267 | Principles of Sales. |
| MKT271 | Principles of Marketing .................................................................. 3 |

Restricted Electives: 3 Credits
Students should select from the following courses in consultation with Department Advisor.
CIS103 Introduction to Social Media ................................................................. 3
MKT101 Introduction to Public Relations............................................................... 3
MKT110 Marketing and Social Networking............................................................ 3
MKT268 Merchandising.......................................................................................... 3

CONTACT: Ms. S. Celaya, Program Director:
https://www.phoenixcollege.edu/business

## Marketing and Sales <br> Associate in Applied Science - AAS 3094 <br> 62-69 Credits

The Associate in Applied Science (AAS) in Marketing and Sales program is designed to develop competencies essential for success in marketing and personal selling. By completing this program, students will be better equipped for successful performance in a variety of marketing/management occupations, including wholesaling, retailing, professional sales, and entrepreneurship. Certificates of Completion (CCL) in Marketing and Social Media Marketing are available.

Program Notes: Students must earn a grade of C or better for all courses required in the program
Admission Criteria: None.

## Program Prerequisites: None.

Required Courses: 25-27 Credits
ACC111 Accounting Principles I ..... 3
BPC110 Computer Usage and Applications (3) OR ..... CIS105
Survey of Computer Information Systems (3) ..... 3
FYE101 Introduction to College, Career and Personal Success (1) OR
FYE103 Exploration of College, Career and Personal Success (3) ..... 1-3
GBS151 Introduction to Business ..... 3
GBS120 Workplace Communication Skills (3) OR
GBS233 Business Communication + (3) ..... 3
MKT110 Marketing and Social Networking. ..... 3
MKT263 Advertising Principles ..... 3
MKT267 Principles of Sales ..... 3
MKT271 Principles of Marketing ..... 3
Restricted Electives: 15 Credits
Students should select 15 credits from the following courses in consultation with a Department Advisor. CIS103 Introduction to Social Media ..... 3
GBS205 Legal, Ethical, and Regulatory Issues in Business .....  3
IBS101 Introduction to International Business ..... 3
MGT126 Customer Service Skills and Strategies ..... 3
MGT251 Human Relations in Business ..... 3
MKT+++ Any MKT Marketing courses except courses used to satisfy the Required Courses area ..... 3-15

General Education: 22-27 Credits
CORE: 12-17 Credits
First-Year Composition:
Any approved general education courses from the First-Year Composition area +...................... 6
Oral Communication:
COM100 Introduction to Human Communication (3) OR
COM110 Interpersonal Communication (3) OR
COM225 Public Speaking + (3) OR
COM230 Small Group Communication (3)............................................................. 3
Critical Reading:
CRE101 College Critical Reading and Critical Thinking + (3) OR Equivalent as indicated by assessment (0) 0-3
Mathematics:
Any approved general education course from the Mathematics area3-5

DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Any approved general education course from the Humanities, Arts and Design area .................. 3
Social-Behavioral Sciences:
SBU200 Society and Business............................................................................... 3
Natural Sciences:
Any approved general education course from the Natural Sciences area.4

CONTACT: Mr. D. Dopp, Department Chair:
https://www.phoenixcollege.edu/business

## Organizational Leadership <br> Certificate of Completion - CCL 5731 <br> 18 Credits

The Certificate of Completion (CCL) in Organizational Leadership is designed to prepare students with knowledge and skills needed in today's changing workplace. The program provides leadership and communication skills and techniques for planning, organizing, leading and controlling business situations. This program also emphasizes procedures for effective resource allocation. The CCL in Organizational Leadership is fully embedded in an Associate in Applied Science (AAS) in Organizational Management.

Program Notes: Students must earn a grade of C or better in all courses within the program.
Admission Criteria: None

Program Prerequisites: None
Required Courses: 18 Credits

| BPC110 | Computer Usage and Applications (3) OR |
| :--- | :--- |
| CIS105 | Survey of Computer Information Systems (3) ........................................... 3 |


| GBS110 | Human Relations in Business and Industry (3) OR |
| :--- | :--- |
| MGT251 | Human Relations in Business (3)............................................................. 3 |

GBS120 Workplace Communication Skills............................................................ 3
GBS151 Introduction to Business ........................................................................... 3
MGT175 Business Organization and Management (3) OR
TQM240 Project Management in Quality Organizations (3)3

MGT101 Techniques of Supervision (3) OR
MGT229 Management and Leadership I (3)3

Restricted Electives: None.

CONTACT: Mr. D. Dopp, Department Chair: https://www.phoenixcollege.edu/business

## Organizational Management <br> Associate in Applied Science - AAS 3727 <br> 61-68 Credits

The Associate in Applied Science (AAS) in Organizational Management program is designed with a customized curriculum specific to the student's individual needs in addition to the knowledge and skills needed in today's changing workplace. The program provides leadership and communication skills and techniques for planning, organizing, leading and controlling business situations. This program also emphasizes procedures for effective resource allocation. A Certificate of Completion (CCL) in Organizational Leadership is fully embedded in this AAS.

Program Notes: Students must earn a grade of C or better for all courses required within the program. + indicates course has prerequisites and/or corequisite.

## Admission Criteria: None

Program Prerequisites: None

| Required Courses: | 19-22 Credits |
| :--- | :--- |
| FYE101 | Introduction to College, Career and Personal Success (1) OR |
| FYE103 | Exploration of College, Career and Personal Success (3) ..................... $1-3$ |

## Restricted Electives: 20 Credits

Students must choose 20 industry/job related course credits from any MCCCD occupational program and/or Academic Certificate. Industry/job related course credits must include a minimum of 9 credits with a common subject or theme. Program of study must be approved by the business department chair or designee.

General Electives: None.

General Education Requirements: 22-27 Credits
CORE: 12-17 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) or
ENG107 First-Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) or
ENG108 First-Year Composition for ESL + (3) ...................................................... 6
Oral Communication:
Any approved general education course from the Oral Communication area ............................... 3
Critical Reading:
CRE101 College Critical Reading and Critical Thinking + (3) OR
Equivalent by assessment..................................................................................................... 0-3
Mathematics:
Any approved general education course from the Mathematics area .3-5

DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Any approved general education course from the Humanities, Arts and Design [HU] area ......... 3 Social-Behavioral Sciences:
Any approved general education course from the Social-Behavioral Sciences [SB] area .3

## Natural Sciences:

Any approved general education course in the Natural Sciences (Quantitative) [SQ] area or the Natural Sciences (General) [SG] area.4

CONTACT: Mr. D. Dopp, Department Chair: https://www.phoenixcollege.edu/business

## Retail Management <br> Associate in Applied Science - AAS 3048 <br> 62-67 Credits

The Associate in Applied Science (AAS) in Retail Management degree is designed to prepare individuals working in the retail management, food industry, and related fields, for the mid-level management position challenges of the future. The curriculum encompasses business essentials and also emphasizes the skill sets needed for effective management and communication in the work environment. Instruction will provide the background and knowledge necessary for students to develop the judgment skills they must exercise as business managers. A Certificate of Completion (CCL) in Retail Management is also available.

Program Notes: Students must earn a grade of C or better in all courses within the program.

## Admission Criteria: None.

## Program Prerequisites: None.

Required Courses: 28-33 Credits
Choose one of the following three accounting sequences:
ACC111 Accounting Principles I (3) AND
ACC230 Uses of Accounting Information I + (3) AND
ACC240 Uses of Accounting Information II +
OR
ACC111 Accounting Principles I (3) AND
ACC112 Accounting Principles II + (3) AND
ACC212 Managerial Accounting +
OR
ACC211 Financial Accounting (3) AND
ACC212 Managerial Accounting + (3).
$\begin{array}{ll}\text { BPC110 } & \text { Computer Usage and Applications (3) OR } \\ \text { CIS105 } & \text { Survey of Computer Information Systems (3) } \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots . .3\end{array}$
$\begin{array}{ll}\text { FYE101 } & \text { Introduction to College, Career and Personal Success (1) OR } \\ \text { FYE103 } & \text { Exploration of College, Career and Personal Success (3) ......................1-3 }\end{array}$
$\begin{array}{ll}\text { MGT101 } & \text { Techniques of Supervision (3) OR } \\ \text { MGT229 } & \text { Management and Leadership I (3) ............................................................ } 3\end{array}$
$\begin{array}{ll}\text { MGT180 } & \text { Retail Management (3) OR } \\ \text { MKT268 } & \text { Merchandising (3) .................................................................................... } 3\end{array}$

MGT251 Human Relations in Business ................................................................... 3
MGT276 Personnel/Human Resources Management............................................... 3
MKT271 Principles of Marketing ........................................................................... 3
SBU200 Society and Business............................................................................... 3

Restricted Electives: 9-15 Credits
Student must complete additional nine (9) to fifteen (15) credits from GBS, MGT, and/or MKT prefixed courses (except courses used to satisfy Required Courses area) to complete a minimum of 61 total program credits. Must include at least one MKT course.

| GBS+++++ | Any GBS General Business course(s) |
| :--- | :--- |
| MGT++++++ | Any MGT Management course(s) |
| MKT+++++ | Any MKT Marketing course(s) |

General Electives: None.
General Education: 19-24 Credits
CORE: 12-17 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) OR
ENG108 First-Year Composition for ESL + (3) OR
ENG111 Technical and Professional Writing + (3). .6
ENG102 or ENG108 recommended for students pursuing a bachelor's degree at an Arizona university.
Oral Communication:
COM100 Introduction to Human Communication .3

Critical Reading:
CRE101
College Critical Reading and Critical Thinking + (3) OR Equivalent as indicated by assessment0-3

## Mathematics:

Any approved general education course from the Mathematics area3-5

DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Any approved general education course from the Humanities, Arts and Design area .3

Social-Behavioral Sciences:
Met by SBU200 in Required Courses area.
Natural Sciences:
Any approved general education course from the Natural Sciences area4

CONTACT: Mr. D. Dopp, Department Chair: https://www.phoenixcollege.edu/business


#### Abstract

Retail Management Certificate of Completion - CCL 5286 24 Credits The Certificate of Completion (CCL) in Retail Management is designed to prepare individuals working in the retail industry, and related fields, for the industry training needs in supervision and management, marketing, financial management, and business planning. The curriculum encompasses several business essentials and also emphasizes the skill sets needed for effective management and communication in the work environment. An Associate in Applied Science (AAS) in Retail Management is also available. Program Notes: + indicates course has prerequisites and/or corequisites. Students must earn a C or better in all courses within the program.


Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 24 Credits

| ACC111 | Accounting Principles I (3) OR |
| :--- | :--- |
| ACC211 | Financial Accounting (3).......................................................................... 3 |


| BPC110 | Computer Usage and Applications (3) OR |
| :--- | :--- |
| CIS105 | Survey of Computer Information Systems (3) $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots . .3$ |

COM100 Introduction to Human Communication ..... 3
MGT251 Human Relations in Business ..... 3

MGT101 Techniques of Supervision (3) OR
MGT229 Management and Leadership I (3)3

MGT180 Retail Management (3) OR
MKT268
Merchandising (3)3

MGT276

Personnel/Human Resources Management ..... 3
MKT271 Principles of Marketing ..... 3

Restricted Electives: None.
General Electives: None.

CONTACT: Mr. D. Dopp, Department Chair: https://www.phoenixcollege.edu/business

## Securities Industry Essentials <br> Certificate of Completion - CCL 5907 <br> 16 Credits

The Certificate of Completion (CCL) in Securities Industry Essentials builds the industry knowledge and skills for individuals to prepare for careers in Financial Services. This CCL will introduce students new to or interested in financial services to the fundamental concepts of capital markets, types of products and their risks, trading, customer accounts, prohibited activities, and regulatory agencies and their functions. Students with the requisite experience in the field who complete this CCL can pursue employment in a variety of security industry jobs. This CCL also helps to prepare students for the Financial Industry Regulatory Authority (FINRA) Securities Industry Essentials (SIE). A Certificate of Completion (CCL) and Associate in Applied Science (AAS) in Banking and Finance are also available.

Program Notes: Students must earn a grade of C or better in all courses within the program. This Certificate of Completion (CCL) is intended for current or prospective securities industry professionals who are interested in expanding their knowledge in the area of financial securities to enhance their employment opportunities.

## Admission Criteria: None

## Program Prerequisites: None

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Required Courses: 16 Credits
GBS120 Workplace Communication Skills............................................................ 3
GBS151 Introduction to Business ........................................................................... 3
GBS261 Investments I............................................................................................ 3
GBS261LL Securities Industry Essentials (SIE) Exam Prep ......................................... 1
MGT126 Customer Service Skills and Strategies .................................................... 3
MKT267 Principles of Sales (3) OR
MKT271 Principles of Marketing (3)....................................................................... 3
Recommend MKT267 if career goal in the field of finance is sales.
```

Restricted Electives: None.

CONTACT: Mr. D. Dopp, Department Chair: https://www.phoenixcollege.edu/business

## Security Industry Essentials: Pre-licensure

 Certificate of Completion - CCL 5931N 4 CreditsThe Certificate of Completion (CCL) in Security Industry Essentials: Pre-licensure is designed to prepare students for the Financial Industry Regulatory Authority (FINRA) Securities Industry Essentials (SIE) Examination required for entry-level positions in the security industry.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in each course in the program.

Admission Criteria: None
Program Prerequisites: None
Required Courses: 4 Credits
GBS261 Investments I........................................................................................... 3
GBS261LL Securities Industry Essentials (SIE) Exam Prep ........................................ 1
Restricted Electives: None.

CONTACT: Mr. D. Dopp, Department Chair: https://www.phoenixcollege.edu/business

## Small Business Management Level I Certificate of Completion - CCL 5153N 10-12 Credits <br> The Certificate of Completion (CCL) in Small Business Management Level I program is designed to meet the needs of individuals who wish to own and/or manage a small business. Prepares students to acquire the skills, tools and knowledge necessary for successful start-up and operations of a business.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better required for all courses within the program.

Admission Criteria: None
Program Prerequisites: None
Required Courses: 10-12 Credits

| EPS195 | Business Start-Up and Planning (2) OR |
| :--- | :--- |
| SBS216 | Planning for a Small Business + (2) OR |
| MGT253 | Owning and Operating a Small Business (3) |

SBS200 Small Business Operations ...................................................................... 2
SBS202 Small Business Bookkeeping and Tax Preparation (1) AND
SBS203 Financing and Cash Management for a Small Business (1) OR
SBS230 Financial and Tax Management for Small Business (2) ............................ 2
SBS204 Small Business Marketing and Advertising (2) OR
SBS220 Internet Marketing for Small Business (2) OR
MKT271 Principles of Marketing (3)2-3

SBS213 Hiring and Managing Employees............................................................. 1
SBS214 Small Business Customer Relations.......................................................... 1

## Restricted Electives: None.

CONTACT: Mr. D. Dopp, Department Chair: https://www.phoenixcollege.edu/business

Small Business Management Level II Certificate of Completion - CCL 5978 16-18 Credits<br>The Certificate of Completion (CCL) in Small Business Management Level II program is designed to focus on aspects critical to a specific individual's small business. Prepares students to acquire additional skills, tools and knowledge necessary for successful start-up and operations of a business. A Certificate of Completion (CCL) in Small Business Management Level I is also available and fully embedded in this program.

Program Notes: Students must earn a grade of C or better for all courses within the program.
Admission Criteria: None

## Program Prerequisites: None

Required Courses: 10-12 Credits

| EPS195 | Business Start-Up and Planning (2) OR |
| :--- | :--- |
| SBS216 | Planning for a Small Business + (2) OR |
| MGT253 | Owning and Operating a Small Business (3)............................................2-3 |

SBS200 Small Business Operations ...................................................................... 2

| SBS202 | Small Business Bookkeeping and Tax Preparation (1) AND |
| :--- | :--- |
| SBS203 | Financing and Cash Management for a Small Business (1) OR |
| SBS230 | Financial and Tax Management for Small Business (2) ........................... 2 |


| SBS204 | Small Business Marketing and Advertising (2) OR |
| :--- | :--- |
| SBS220 | Internet Marketing for Small Business (2) OR |
| MKT271 | Principles of Marketing (3).................................................................2-3 |

SBS213 Hiring and Managing Employees............................................................. 1
SBS214 Small Business Customer Relations......................................................... 1

Restricted Electives: 6 Credits
Choose 6 credits from the restricted electives below. Courses cannot be shared with Required Courses.
EPS150 Introduction to Entrepreneurship.............................................................. 3
EPS195 Business Start-Up and Planning.............................................................. 2
MGT253 Owning and Operating a Small Business .................................................. 3
MKT271 Principles of Marketing........................................................................... 3
SBS202 Small Business Bookkeeping and Tax Preparation ................................... 1
SBS203 Financing and Cash Management For a Small Business ......................... 1
SBS204 Small Business Marketing and Advertising.............................................. 2
SBS215 Managing Stress in Small Business.......................................................... 1
SBS216 Planning for a Small Business +.............................................................. 2
SBS217 Starting/Managing a Home Business ....................................................... 1

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

SBS218
SBS220
SBS221
SBS230

Establishing an Import/Export Business..................................................... 1
Internet Marketing for Small Business..................................................... 2
Social Media Marketing for Small Business............................................. 2
Financial and Tax Management for Small Business.................................. 2

CONTACT: Ms. S. Celaya, Program Director:
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Social Media Marketing<br>Certificate of Completion - CCL 5830<br>17-18 Credits<br>The Certificate of Completion (CCL) in Social Media Marketing is designed to provide useful skills important in a variety of strategic marketing areas, e.g., social media, digital communications, integrated marketing, media relations, and brand management. An Associate in Applied Science (AAS) in Marketing and Sales is also available.

Program Notes: Students must earn a grade of C or better for all courses within the program.
Admission Criteria: None
Program Prerequisites: None
Required Courses: 15 Credits
CIS103 Introduction to Social Media ................................................................... 3
GBS120 Workplace Communication Skills............................................................ 3
MKT110 Marketing and Social Networking............................................................ 3
MKT111 Applied Marketing and Social Networking +........................................... 3
MKT271 Principles of Marketing ........................................................................... 3
Restricted Electives: 2-3 Credits
MKT101 Introduction to Public Relations................................................................ 3
MKT280AB Marketing Internship +............................................................................ 2
MKT298AB Special Projects +.................................................................................... 2

## Computer and Information Technology

CONTACT: Mr. W. Tagart, Program Director:
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wallace.tagart@phoenixcollege.edu and/or
https://www.phoenixcollege.edu/iti

## Amazon Web Services Cloud Associate Certificate of Completion - CCL 5330N <br> 3-6 Credits

The Certificate of Completion (CCL) in Amazon Web Services (AWS) Cloud Associate builds the knowledge and skills to design, plan, and implement a cloud solution architecture. Students will be introduced to concepts and hands-on opportunities to manage cloud systems/ architectures for real world-applications. Students with the requisite experience in the field who complete this CCL can pursue employment in a variety of information technology jobs. This CCL also helps to prepare students for the AWS Certified Solutions Architect - Associate examination, which is the second level of the AWS certifications.

Program Notes: This program is not eligible for Title IV Federal Financial Aid.
This Certificate of Completion (CCL) is intended for industry professionals with the requisite experience such as database, Linux, information security, networking, programming, and DevOps who are interested in expanding their knowledge in the area of cloud computing to enhance their employment opportunities. Speak to a program director for additional information.

Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: BPC, CIS, CLD, CNT, ITS, and MST. Students must earn a grade of C or better for all courses required within the program.

## Admission Criteria: None.

## Program Prerequisites: None.

Required Courses: 3-6 Credits
CLD110 Amazon Web Services Cloud Foundations (3) OR
Certificate of Completion in Amazon Web Services Cloud Practitioner (5141N) (3) OR
AWS Certified Cloud Practitioner certification badge (0) OR Permission of Program Director (0) .0-3

CLD120 Amazon Web Services Cloud Architect Associate + .3

Restricted Electives: None.

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## Amazon Web Services Cloud Practitioner Certificate of Completion - CCL 5141N <br> 3 Credits

The Certificate of Completion (CCL) in Amazon Web Services Cloud Practitioner builds the practical knowledge and skills of cloud computing. Cloud computing provides reliable, scalable, secure, and flexible technology solutions for personal and business use. This CCL will introduce students new to or interested in cloud computing to the fundamental concepts of cloud services as well as hands-on opportunities to apply these concepts to real-world applications. Students with the requisite experience in the field who complete this CCL can pursue employment in a variety of information technology jobs. This CCL also helps to prepare students for the Amazon Web Services (AWS) Certified Cloud Practitioner exam, which is the first level of the AWS certification.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. This Certificate of Completion (CCL) is intended for industry professionals with the requisite experience such as database, Linux, information security, networking, programming, and DevOps who are interested in expanding their knowledge in the area of cloud computing to enhance their employment opportunities. Speak to a program director for additional information.

Students must earn a grade of C or better for all courses required within the program.
Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 3 Credits
CLD110 Amazon Web Services Cloud Foundations. .3

Restricted Electives: None.

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## Amazon Web Services Cloud Specialist Certificate of Completion - CCL 5331N 3-9 Credits

The Certificate of Completion (CCL) in Amazon Web Services (AWS) Cloud Specialist builds the requisite knowledge and skills to perform core Amazon Web Services (AWS) services in a manner that is based on compute, data, security and requirements as well as AWS best practices. Students select a specialization in either Developer or SysOps. Developer focuses on developing, deploying and debugging cloud-based applications using AWS. SysOps focuses on deploying, managing and operating scalable, highly available, and fault tolerant systems on AWS. Students will have hands-on opportunities to manage cloud systems/ architectures for real world-scenarios. Students with the requisite prior experience in the field who complete this CCL can pursue employment in a variety of information technology jobs. This CCL also helps to prepare students for industry-standard certification as either AWS Certified Developer - Associate or AWS Certified SysOps Administrator - Associate based on their emphasis.

Program Notes: This program is not eligible for Title IV Federal Financial Aid.
This Certificate of Completion (CCL) is intended for industry professionals with the requisite experience such as database, Linux, information security, networking, programming, and DevOps who are interested in expanding their knowledge in the area of cloud computing to enhance their employment opportunities. Speak to a program director for additional information. Courses within any of the following prefixes must be taken within five (5) years prior to completion of the CCL to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST. Students must earn a grade of C or better for all courses required within the program.

## Program Prerequisites: None.

## Required Courses: 3-9 Credits

| CLD110 | Amazon Web Services Cloud Foundations (3) OR <br> AWS Cloud Practitioner Certification (0) OR |
| :--- | :--- |
| Permission of Program Director (0) ................................................. 0-3 |  |
| CLD120 | Amazon Web Services Cloud Architect Associate $+(3)$ OR <br> AWS Certified Solutions Architect - Associate certification (0) OR <br> Permission of Program Director (0) ..........................................0-3 |

Complete all courses in the specialization below that best aligns with your academic and professional goals. Consult with an academic, faculty, or program advisor.

Specialization 1: AWS Certified Developer - Associate
CLD130 Amazon Web Services Cloud Developing + ............................................ 3
Specialization 2: AWS Certified SysOps Administrator - Associate
CLD140 Amazon Web Services Cloud Operations +
Restricted Electives: None.

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

CONTACT: Mr. W. Tagart, Program Director:
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## Android App Development <br> Certificate of Completion - CCL 5834N <br> 9-12 Credits

The Certificate of Completion (CCL) in Android App Development prepares students for employment in entry-level coding, programming, and software development positions with an emphasis on Android mobile apps. This CCL will help prepare students to take the Associate Android Developer industry certification. Courses in this certificate can apply toward the Associate in Applied Science (AAS) in Mobile App Development and Certificate of Completion (CCL) in Mobile App Development, and Certificate of Completion (CCL) in Native Mobile App Development.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all courses within the program. Students should consult with a Department Advisor in arranging their schedules.

## Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 9-12 Credits

| CIS105 | Survey of Computer Information Systems (3) OR <br> Permission of Program Director, Department or Division Chair (0)..... 0-3 |
| :--- | :--- |
| CIS150 | Programming Fundamentals + (3) OR |
| CIS150AB | Object-Oriented Programming Fundamentals + (3) OR |
| CIS156 | Python Programming: Level I + (3) OR |
| CIS159 | Visual Basic Programming I + (3) OR |
| CIS162AD | C\# Level I + (3) OR |
| CIS163AA | Java Programming: Level I + (3) .......................................................... 3 |

CIS150 or CIS150AB recommended for students with no programming experience or who plan to complete the AAS 3099 or CCL 5193 in Mobile App Development.

$$
\begin{array}{ll}
\text { CIS165DA } & \text { Introduction to Android Application Development+........................................................................... }
\end{array}
$$

Restricted Electives: None.

CONTACT: Mr. R. Idris, Program Director:
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## Cisco Network Administration: CCNA <br> Certificate of Completion - CCL 5969N <br> 12-15 Credits

The Certificate of Completion (CCL) in Cisco Network Administration: CCNA provides training for those interested in working with network and Internet hardware. Knowledge and skills are developed to install, configure, and maintain Cisco routers and switches; configure advanced routing protocols, and Local Area Networks (LANs); troubleshoot hardware and software configurations; perform administrative tasks in a network. Taught by Cisco Certified professionals using the Cisco Networking Academy program curriculum, courses are designed to help prepare students for the Cisco Certified Network Associate (CCNA) examination. Students who complete this program may seek employment in a variety of environments. Additional Certificates of Completion (CCLs) in Cisco Network Administration and Security and Cisco Network Administration: CCNP, as well as an Associate in Applied Science (AAS) in Network and Systems Administration, are available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all courses within the program. Students who pursue this Certificate of Completion (CCL) should have a basic level of computer literacy including navigating the internet and computer systems or take CIS105 as indicated in the required courses. Students with the requisite skills may have the CIS105 requirement waived by permission of the Program Director. Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 12-15 Credits
CIS105
Survey of Computer Information Systems (3) OR
Permission of Program Director (0) .0-3
CNT140AB Introduction to Networks........................................................................ 4
CNT150AB Switching, Routing, and Wireless Essentials + ....................... 4
CNT160AB Enterprise Networking, Security, and Automation + ................................ 4

## Restricted Electives: None.

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## Cisco Network Administration: CCNP <br> Certificate of Completion - CCL 5037 <br> 28-31 Credits

The Certificate of Completion (CCL) in Cisco Network Administration: CCNP provides students with advanced knowledge and skills to install, configure, and maintain Cisco routers and switches; configure advanced routing protocols, Local Area Networks (LANs), and Wide Area Networks (WANs); troubleshoot complex hardware and software configurations; and perform administrative tasks in a network at the professional level. Taught by Cisco Certified professionals using the Cisco Network Academy program curriculum, courses are designed to help prepare students for the Cisco Certified Network Associate (CCNA) and Cisco Certified Network Professional Certifications (CCNP) examinations. Students who complete this program may seek employment in a variety of environments. An additional Certificate of Completion (CCL) in Cisco Network Administration and Security, as well as an Associate in Applied Science (AAS) in Network and Systems Administration, are also available.

Program Notes: Students must earn a grade of C or better in all courses within the program. Students who pursue this Certificate of Completion (CCL) should have a basic level of computer literacy including navigating the internet and computer systems or take CIS105 as indicated in the required courses. Students with the requisite skills may have the CIS105 requirement waived by permission of the Program Director. Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 28-31 Credits

| CIS105 | Survey of Computer Information Systems (3) OR <br> Permission of program director (0) |
| :---: | :---: |
| CNT140AB | Introduction to Networks |
| CNT150AB | Switching, Routing, and Wireless Essentials + |
| CNT160AB | Enterprise Networking, Security, and Automation+ |
| CNT240 | Cisco Certified Network Professional: Enterprise Core + (8) OR |
| CNT240AA | Cisco Certified Network Professional: Enterprise Core + I (4) AND |
| CNT240AB | Cisco Certified Network Professional: Enterprise Core II + (4) |
| CNT250 | Cisco Certified Network Professional: <br> Enterprise Advanced Routing and Services + (8) OR |
| CNT250AA | Cisco Certified Network Professional: Enterprise Advanced Routing and Services I + (4) AND |
| CNT250AB | Cisco Certified Network Professional: <br> Enterprise Advanced Routing and Services II + (4) . |

## Restricted Electives: None.

CONTACT: Mr. B. Olsen, Program Director:
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## Computer System Configuration and Support Certificate of Completion - CCL 5038N

6-9 Credits
The Certificate of Completion (CCL) in Computer System Configuration and Support program is designed to prepare students for entry-level computer maintenance, help desk, and network technician jobs. The classes focus on the development of knowledge and skills in computer technologies including system components, installation, system configuration, peripheral devices, and notebooks. Emphasis is placed on hardware installation, maintenance, mobile devices, hardware troubleshooting, proper use of tools, safety procedures, and professionalism. This program helps prepare students for the CompTIA A+ certification exams. Students who complete this program may seek employment in a variety of environments. Students can also pursue additional Certificates of Completion (CCL) in a variety of specializations within the information technology field to deepen their knowledge and skills and help prepare them for multiple industry certification examinations. An Associate in Applied Science (AAS) in Network and Systems Administration is also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all courses within the program. Students who pursue this Certificate of Completion (CCL) should have a basic level of computer literacy including navigating the internet and computer systems or take CIS105 as indicated in the Required Courses area. Students with the requisite skills may have the CIS105 requirement waived by permission of the Program Director.
All courses within the Required Courses area are not applicable if taken more than five (5) years prior to the completion of the program. Consult with an academic advisor or program director for exceptions.

## Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 6-9 Credits

CIS105
Survey of Computer Information Systems (3) OR
Permission of program director (0)0-3

BPC170 A+ Exam Prep: Computer Hardware Configuration and Support + .......... 3
BPC270 A+ Exam Prep: Operating System Configuration and Support +.............. 3

## Restricted Electives: None.

CONTACT: Mr. B. Olsen, Program Director:
(602) 532.8711
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## Computer System Configuration and Support, Linux Certificate of Completion - CCL 5039N

## 9-12 Credits

The Certificate of Completion (CCL) in Computer System Configuration and Support, Linux program is designed to prepare students for entry-level computer maintenance, help desk, and network technician jobs with an emphasis on Linux. The classes focus on the development of knowledge and skills in computer and network technologies including system components, installation, system configuration, peripheral devices, and notebooks. Emphasis is placed on the Linux Operating system including knowledge and skills required to install, configure and troubleshoot a Linux-based workstation. This program helps prepare students for the CompTIA A+ and Linux+ certification exams. Students who complete this program may seek employment in a variety of environments. Students can also pursue additional Certificates of Completion (CCLs) in a variety of specializations within the information technology field to deepen their knowledge and skills and help prepare them for multiple industry certification examinations. An Associate in Applied Science (AAS) in Network and Systems Administration is also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all courses within the program. Students who pursue this Certificate of Completion (CCL) should have a basic level of computer literacy including navigating the internet and computer systems or take CIS105 as indicated in the Required Courses area. Students with the requisite skills may have the CIS 105 requirement waived by permission of the Program Director. All courses within the Required Courses area are not applicable if taken more than five (5) years prior to the completion of the program. Consult with an academic advisor or program director for exceptions.

## Admission Criteria: None

Program Prerequisites: None

## Required Courses: 9-12 Credits

| CIS105 | Survey of Computer Information Systems (3) OR <br> Permission of program director (0) ............................................. 0-3 |
| :--- | :--- |
| BPC170 | A+ Exam Prep: Computer Hardware Configuration and Support + .......... 3 |
| BPC270 | A+ Exam Prep: Operating System Configuration and Support +............ 3 |
| CIS126DL | Linux Operating System (3) OR |
| CIS126RH | Red Hat System Administration I (3)................................................... 3 |

Restricted Electives: None.

CONTACT: Mr. B. Olsen, Program Director:
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## Computer System Configuration and Support, Network Certificate of Completion - CCL 5044N

## 9-13 Credits

The Certificate of Completion (CCL) in Computer System Configuration and Support, Network program is designed to prepare students for entry-level computer maintenance, help desk, and network technician jobs with an emphasis on networking. The courses focus on the development of knowledge and skills in computer and network technologies including system components, installation, system configuration, peripheral devices, and notebooks. Emphasis is placed on elements of a data network, network components, and use of a network. This program helps prepare students for the CompTIA A+ and Network+ certification exams. Students who complete this program may seek employment in a variety of environments. Students can also pursue additional Certificates of Completion (CCLs) in a variety of specializations within the information technology field to deepen their knowledge and skills and help prepare them for multiple industry certification examinations. An Associate in Applied Science (AAS) in Network and Systems Administration is also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all courses within the program. Students who pursue this Certificate of Completion (CCL) should have a basic level of computer literacy including navigating the internet and computer systems or take CIS105 as indicated in the Required Courses area. Students with the requisite skills may have the CIS105 requirement waived by permission of the Program Director. All courses within the Required Courses area are not applicable if taken more than five (5) years prior to the completion of the program. Consult with an academic advisor or program director for exceptions.

## Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 9-13 Credits

| CIS105 | Survey of Computer Information Systems (3) OR <br> Permission of program director (0)............................................... 0-3 |
| :--- | :--- |
| BPC170 | A+ Exam Prep: Computer Hardware Configuration and Support + .......... 3 |
| BPC270 | A+ Exam Prep: Operating System Configuration and Support +............ 3 |
| CIS190 | Introduction to Networking + (3) OR |
| CNT140AB | Introduction to Networks (4) ....................................................... 3-4 |

## Restricted Electives: None.

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## Computer System Configuration and Support, Security Certificate of Completion - CCL 5040N 9-19 Credits

The Certificate of Completion (CCL) in Computer System Configuration and Support, Security program is designed to prepare students for entry-level computer maintenance, help desk, and network technician jobs with an emphasis on security. The courses focus on the development of knowledge and skills in computer and security technologies including system components, installation, system configuration, peripheral devices, and notebooks. Emphasis is placed on preventing, identifying, and mitigating threats to the security of information systems and utilizing the basic tools for information security. This program helps prepare participants for the CompTIA A+, Security+, and certification exams. Students who complete this program may seek employment in a variety of environments. Students can also pursue additional Certificates of Completion (CCLs) in a variety of specializations within the information technology field to deepen their knowledge and skills and help prepare them for multiple industry certification examinations. An Associate in Applied Science (AAS) in Network and Systems Administration is also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all courses within the program. Students who pursue this Certificate of Completion (CCL) should have a basic level of computer literacy including navigating the internet and computer systems or take CIS105 as indicated in the required courses. Students with the requisite skills may have the CIS105 requirement waived by permission of the Program Director. All courses within the Required Courses area are not applicable if taken more than five (5) years prior to the completion of the program. Consult with an academic advisor or program director for exceptions.

Admission Criteria: None.

Program Prerequisites: None.

## Required Courses: 9-19 Credits

| CIS105 | Survey of Computer Information Systems (3) OR <br> Permission of program director (0) .................................................... 0-3 |
| :--- | :--- |
| BPC170 | A+ Exam Prep: Computer Hardware Configuration and Support + ........... 3 |
| BPC270 | A+ Exam Prep: Operating System Configuration and Support +........... 3 |


| CIS250 | Management of Information Systems............................................................................................................................. |
| :--- | :--- |

## Restricted Electives: None.

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## Cross-Platform App Development Certificate of Completion - CCL 5067 <br> 18-21 Credits

The Certificate of Completion (CCL) in Cross-Platform App Development prepares students for employment in entry-level coding, programming, and software development positions with an emphasis on Windows Mobile apps and web apps. This CCL will help students prepare to take the Microsoft Technology Associate (MTA) Software Development Fundamentals C\# certification. Courses in this certificate can apply toward the Associate in Applied Science (AAS) in Mobile App Development and Certificate of Completion (CCL) in Mobile App Development.

Program Notes: Students must earn a grade of C or better in all courses within the program. Program requirements for CCL 5833N Windows App Development and CCL 5835N Web App Development may be taken in the CCL 5067 Cross-Platform App Development. Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST.

Admission Criteria: None.

## Program Prerequisites: None.

| Required Courses: 18-21 Credits |  |
| :---: | :---: |
| CIS105 | Survey of Computer Information Systems (3) OR |
|  | Permission of Program Director, Department or Division Chair (0).... 0-3 |
| CIS133DA | Internet/Web Development Level I + ............................................... 3 |
| CIS162AD | C\#: Level I.................................................................................... 3 |
| CIS165DB | C\#/VB.NET: Windows 8 App Development + (3) OR |
| CIS165DC | Xamarin/C\# Cross Platform Development + (3) . . . . . . . . . . . . . . . . . . 3 |
| CIS166AA | Introduction to JavaScripting +........................................................ 3 |
| CIS233DA | Internet/Web Development Level II +............................................... 3 |
| CIS262AD | C\# Level II +............................................................................... 3 |

Restricted Electives: None.

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## Cyber Engineering <br> Certificate of Completion - CCL 5149 <br> 42-46 Credits

The Certificate of Completion (CCL) in Cyber Engineering program is designed to focus on the necessary skills required to secure, protect and identify vulnerabilities in a network, including various operating systems and network devices. Emphasis is placed on developing the theoretical, legal, ethical and practical skills needed to maintain security on mission-critical networking and server systems. The program is designed to meet the training needs of government and industry employees. The program covers a variety of information security technologies and structured languages. The Cyber Engineering program also focuses on the skills needed for internationally recognized IT certifications and high demands in business, industry, and government. An Associate in Applied Science (AAS) in Cybersecurity is also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program. Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST.

Admission Criteria: None.
Program Prerequisites: None.

## Required Courses: 42-46 Credits

The following courses are required and included in the CCL in Cybersecurity Fundamentals:
A+ Exam Prep: Operating System Configuration and Support + (3) OR
MST150++
Any Microsoft Windows course (3)
.3
CIS105 Survey of Computer Information Systems ................................................ 3
CIS111 Ethics in Information Technology (3) OR
ITS120 Legal, Ethical and Regulatory Issues + (3)
$\begin{array}{ll}\text { CIS126DL } & \text { Linux Operating System (3) OR } \\ \text { CIS126RH } & \text { Red Hat System Administration I (3)........................................................ } 3\end{array}$
CIS156 Python Programming: Level I + ............................................................. 3
CIS190 Introduction to Networking + (3) OR
CNT140AB Introduction to Networks (4) ............................................................... 3-4
CIS270 Essentials of Network and Information Security + (3) OR
CIS271DB Information Security Essentials + (3) AND
CIS272DB Information Security Principles + (3) OR
ITS110 Information Security Fundamentals + (3)
ITS240 Ethical Hacking and Network Defense +................................................. 3

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

| CIS119DO | Introduction to Oracle: SQL + (3) OR |
| :---: | :---: |
| CIS276++ | Any SQL Database course + (3).. |
| CIS162++ | Any C Programming: Level I course + |
| CIS227 | Assembler Language |
| CIS238DL | Linux System Administration + (3) OR |
| CIS238RH | Red Hat System Administration II + (3) |
| CIS250 | Management of Information Systems + . |
| CIS262++ | Any C Programming: Level II course +. |

## Restricted Electives: None.

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## Cybersecurity

Associate in Applied Science - AAS 3197

## 62-77 Credits

The Associate in Applied Science (AAS) in Cybersecurity is designed to focus on the necessary skills required to secure, protect and identify vulnerabilities in a network, including various operating systems and network devices. Emphasis is placed on developing the theoretical, legal, ethical and practical skills needed to maintain security on mission-critical networking and server systems. The program is designed to meet the training needs of government and industry employees. The program covers a variety of information security technologies and structured languages. The Cybersecurity program also focuses on the skills needed for internationally recognized IT certifications and high demands in business, industry, and government. Certificates of Completion (CCLs) are also available in the following areas:
Cybersecurity Fundamentals, Cyber Operations, Linux System Administration, Microsoft, Cisco Networking CCNA Security, Cyber Engineering, and Critical Infrastructure.

Program Notes: Students must earn a grade of C or better in all courses within the program.
Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 25-31 Credits
BPC270 A+ Exam Prep: Operating System Configuration and Support + (3) OR
MST150++ Any Microsoft Windows course (3)......................................................... 3
(MST150++ required for Microsoft System Administration specialization and Critical Infrastructure specialization)
CIS105 Survey of Computer Information Systems ............................................... 3
CIS111 Ethics in Information Technology (3) OR
ITS120 Legal, Ethical and Regulatory Issues (3).................................................. 3

| CIS126DL | Linux Operating System (3) OR |
| :--- | :--- |
| CIS126RH | Red Hat System Administration I (3)........................................................ 3 |

CIS156 Python Programming: Level I + .............................................................. 3
$\begin{array}{ll}\text { CIS190 } & \text { Introduction to Networking + (3) OR } \\ \text { CNT140AB } & \text { Introduction to Networks (4) ................................................................ 3-4 }\end{array}$
(CNT140AB required for Cisco Network Administration and Security specialization and Critical Infrastructure specialization)

CIS271DB Information Security Essentials + (3) AND
CIS272DB Information Security Principles + (3) OR

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

| CIS270 | Essentials of Network and Information Security + (3) OR |
| :--- | :--- |
| ITS110 | Information Security Fundamentals + (3)........................................... 3-6 | (ITS110 required for Cyber Operations specialization; CIS271DB AND CIS272DB required for Critical Infrastructure specialization)


| FYE101 | Introduction to College, Career and Personal Success (1) OR |
| :--- | :--- |
| FYE103 | Exploration of College, Career and Personal Success (3) ......................1-3 |
| ITS240 | Ethical Hacking and Network Defense +.................................................. 3 |

Restricted Electives: 12-18 Credits
Students must complete 12-18 credits from the following list of courses. Courses that are required for a specialization in Cyber Operations, Linux System Administration, Cloud System Administration, Cisco Network Administration and Security, Cyber Engineering, and/or Critical Infrastructure are noted. Courses cannot be repeated for credit.

| Specialization I: Cyber Operations (17 credits) <br> BPC170 <br> A+ Exam Prep: Computer Hardware Configuration and Support + .......... 3 |  |
| :--- | :--- |
| CIS238DL <br> CIS238RH | Linux System Administration + (3) OR <br> Red Hat System Administration II + (3) ............................................ 3 |
| CIS290AC | Computer Information Systems Internship + (3) OR |
| CIS298AC | Special Projects + (3) ......................................................................... 3 |


| MST260 | Microsoft Azure Cloud Development and Operations + (3) OR |
| :---: | :---: |
| CLD120 | Amazon Web Services Cloud Architect Associate + (3)...................... 3 |
| Specialization IV: Cisco Network Administration and Security (12 credits) |  |
| CNT150AB | Switching, Routing, and Wireless Essentials + . . . . . . . . . . . . . . . . . . . 4 |
| CNT160AB | Enterprise Networking, Security, and Automation +............................ 4 |
| CNT202 | Cisco Secure Firewall Appliance Configuration + (4) OR |
| CNT205 | Cisco Certified Network Associate Security + (4) ........................ 4 |
| Specialization V: Cyber Engineering (18 credits) |  |
| CIS119DO | Introduction to Oracle: $\mathrm{SQL}+$ (3) OR |
| CIS276++ | Any SQL Database course + (3) .................................................... 3 |
| CIS162++ <br> (Students int | Any C Programming: Level I course + . 3 $\qquad$ transfer to U of A South should take CIS162 C Programming) |
| CIS227 | Assembler Language .................................................................... 3 |
| CIS238DL | Linux System Administration + (3) OR |
| CIS238RH | Red Hat System Administration II + (3) ............................................ 3 |
| CIS250 | Management of Information Systems + ....................................... 3 |
| CIS262++ | Any C Programming: Level II course +............................................. 3 |
| Specialization VI: Critical Infrastructure (16 credits) |  |
| CIS 143 | Introduction to Critical Infrastructure Protection + .................................... 3 |
| CIS201 | Introduction to Operational Technology + ....................................... 3 |
| CIS202 | Introduction to Smart Grid Security +.............................................. 3 |
| CIS203 | Principles of the Risk Management Framework + ...................................... 3 |
| CNT150AB | Switching, Routing, and Wireless Essentials + . . . . . . . . . . . . . . . . . . . . 4 |
| General Education Requirements: 22-28 Credits |  |
| CORE: 12-18 Credits |  |
| First-Year Composition: |  |
| ENG101 | First-Year Composition + (3) OR |
| ENG107 | First-Year Composition for ESL + (3) AND |
| ENG102 | First-Year Composition + (3) OR |
| ENG108 | First-Year Composition for ESL +.............................................. 6 |
| Oral Communication: |  |
| COM100 | Introduction to Human Communication (3) OR |
| COM110 | Interpersonal Communication (3) OR |
| COM225 | Public Speaking + (3) OR |
| COM230 | Small Group Communication (3)..................................................... 3 |
| Applied Computing (Cybersecurity). |  |
| Critical Reading: |  |
| CRE101 | College Critical Reading and Critical Thinking + (3) OR |
| Equivalent as | d by assessment ....................................................................... 0-3 |

## Mathematics:

Any approved general education course in the Mathematics area3-6

DISTRIBUTION: 10 Credits

Humanities, Arts and Design:

Any approved general education course(s) in the Humanities, Arts and Design area................... 3

Social-Behavioral Sciences:
Any approved general education course(s) in the Social-Behavioral Sciences area..................... 3
Natural Sciences:
Any approved general education course(s) from the Natural Sciences area................................. 4

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## Cybersecurity Fundamentals Certificate of Completion - CCL 5154

24-31 Credits
The Certificate of Completion (CCL) in Cybersecurity Fundamentals is designed to focus on the necessary skills required to secure, protect and identify vulnerabilities in a network, including various operating systems and network devices. Emphasis is placed on developing the theoretical, legal, ethical and practical skills needed to maintain security on mission-critical networking and server systems. The program is designed to provide applied skills necessary for government and industry employees. The program covers a variety of information security technologies and structured languages. The Cybersecurity program also focuses on the skills needed for internationally recognized IT certifications and high demands in business, industry, and government. An Associate in Applied Science (AAS) in Cybersecurity is also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program. Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST.

Admission Criteria: None.
Program Prerequisites: None.

| Required Courses: | 24-31 Credits |
| :--- | :--- |
| BPC270 | A+ Exam Prep: Operating System Configuration and Support + (3) OR |
| MST150++ | Any Microsoft Windows course (3)...................................................... 3 |


| CIS270 | Essentials of Network and Information Security + (3) OR |
| :--- | :--- |
| CIS271DB | Information Security Essentials + (3) AND |
| CIS272DB | Information Security Principles + (3) OR |
| ITS110 | Information Security Fundamentals + (3)............................................ 3-6 |
| ITS240 | Ethical Hacking and Network Defense +................................................. 3 |

## Restricted Electives: None.

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## Desktop Support <br> Certificate of Completion - CCL 5043 <br> 19-22 Credits

The Certificate of Completion (CCL) in Desktop Support program is designed to prepare students for entry-level computer maintenance, help desk, and network technician jobs. The classes focus on the development of knowledge and skills in computer, network, and security technologies, as well as the interpersonal skills in customer service/technical support needed to be successful within the industry. Depending on course selection, this program helps prepare students for the CompTIA A+, CompTIA Network+, and/or CompTIA Linux+ certification exams. Students who complete this program may seek employment in a variety of environments. Students can also pursue additional Certificates of Completion (CCLs) in a variety of specializations within the information technology field to deepen their knowledge and skills and help prepare them for multiple industry certification examinations. An Associate in Applied Science (AAS) in Network and Systems Administration is also available.

Program Notes: Students must earn a grade of C or better in all courses within the program. All courses within the Required Courses and Restricted Electives areas are not applicable if taken more than five (5) years prior to the completion of the program. Consult with an Academic Advisor or Program Director for exceptions.

## Admission Criteria: None.

## Program Prerequisites: None.

Required Courses: 18-19 Credits

| BPC170 | A+ Exam Prep: Computer Hardware Configuration and Support + ......... 3 |
| :---: | :---: |
| BPC270 | A+ Exam Prep: Operating System Configuration and Support +.. |
| CIS102DA | Customer User Support. |
| CIS105 | Survey of Computer Information Systems |
| CIS126DL | Linux Operating System (3) OR |
| CIS126RH | Red Hat System Administration I (3). |


| CIS190 | Introduction to Networking + (3) OR |
| :--- | :--- |
| CNT140AB | Introduction to Networks (4) ................................................................ 3-4 |

(Note: CNT140AB is recommended for students interested in pursuing their Cisco Network Administration Certification)

## Restricted Electives: 1-3 Credits

Students must select one to three (1-3) credits from the following:
BPC171 Recycling Used Computer Technology.................................................... 1
CIS290AA Computer Information Systems Internship +............................................ 1
CIS290AB Computer Information Systems Internship +............................................ 2
CIS290AC Computer Information Systems Internship +............................................ 3
CIS296WB Cooperative Education + ......................................................................... 2
CIS296WC Cooperative Education + ......................................................................... 3

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

| CIS298AA | Special Projects + . |
| :---: | :---: |
| CIS298AB | Special Projects +. |
| CIS298AC | Special Projects + |

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

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## Foundations of Mobile App Development Certificate of Completion - CCL 5793

## 18-21 Credits

The Certificate of Completion (CCL) in the Foundations of Mobile App Development prepares students for employment in entry-level coding, programming, and software development positions with foundational experience in a variety of platforms, including iOS, Android, Windows and web app development. Courses in this certificate can apply toward the Associate in Applied Science (AAS) in Mobile App Development and Certificate of Completion (CCL) in Mobile App Development.

Program Notes: Students must earn a grade of C or better in all courses within the program. Students should consult with a Department Advisor in arranging their schedules.

Admission Criteria: None.
Program Prerequisites: None.

| Required Courses: 18-21 Credits |  |
| :---: | :---: |
| CIS105 | Survey of Computer Information Systems (3) OR |
|  | Permission of Program Director, Department or Division Chair (0) .......0-3 |
| CIS120DF | Introduction to Adobe Photoshop....................................................... 3 |
| CIS133DA | Internet/Web Development Level I + ............................................... 3 |
| CIS162AD | C\#: Level I.................................................................................. 3 |
| CIS165 | Introduction to IOS Application Development + .................................. 3 |
| CIS165DA | Introduction to Android Application Development + . . . . . . . . . . . . . . . . . 3 |
| CIS165DB | C\#/VB.NET: Windows 8 App Development + (3) OR |
| CIS165D | Xamarin/C\# Cross Platform Development + (3)......................................... 3 |

Restricted Electives: None.

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## Information Technology <br> Associate in Applied Science - AAS 3196 <br> 61-68 Credits

The Associate in Applied Science (AAS) in Information Technology (IT) program is designed to provide students with skills to meet information technology needs across industries. This program includes instruction in the principles of computer hardware components and business software, programming, databases, networking, customer service, web development, and information systems and project management. Coursework helps prepare students for a variety of industry-recognized examinations and certifications. Students will earn one or more of the following Certificates of Completion (CCLs):
CCL/5154 Cybersecurity Fundamentals CCL/5083 Database Development CCL/5043 Desktop Support CCL/5793 Foundations of Mobile App Development CCL/5132 Microsoft Office Professional CCL/5031 Microsoft System Administration CCL/5048 Programming and Systems Analysis Level I CCL/5183N Oracle Database Operations
CCL/5050N Red Hat Linux Engineer CCL/5984 Web Foundations

Program Notes: Students must earn a grade of C or better in all courses required within the program.

## Admission Criteria: None.

Program Prerequisites: None.

| Required Courses: | 33-41 Credits |
| :--- | :--- |
| FYE101 | Introduction to College, Career and Personal Success (1) OR |
| FYE103 | Exploration of College, Career and Personal Success (3) ......................1-3 |

Complete all courses in the specialization below that best aligns with your academic and professional goals. Consult with an academic, faculty, or program advisor.

| Specialization 1: Cybersecurity Fundamentals (33-38 credits) |  |
| :--- | :--- |
| Information Technology Core (24-25 credits) |  |
| BPC270 | A+ Exam Prep: Operating System Configuration and Support + (3) OR |
| MST150++ | Any Microsoft Windows course (3)................................................... 3 |


| CIS133DA | Internet/Web Development Level |
| :---: | :---: |
| CIS156 | Python Programming: Level I + |
| CIS190 | Introduction to Networking + (3) OR |
| CNT140AB | Introduction to Networks (4) .........................................................3-4 |
| CIS224 | Project Management Microsoft Project for Windows (3) OR |
| CIS250 | Management of Information Systems + (3) |
| Students taking CIS271DB would be required to take CIS250. |  |
| Cybersecurity Fundamentals (9-12 credits) |  |
| CIS111 | Ethics in Information Technology (3) OR |
| ITS120 | Legal, Ethical and Regulatory Issues + (3)......................................... 3 |
| CIS270 | Essentials of Network and Information Security + (3) OR |
| CIS271DB | Information Security Essentials + (3) AND |
| CIS272DB | Information Security Principles + (3) OR |
| ITS110 | Information Security Fundamentals + (3).........................................3-6 |
| ITS240 | Ethical Hacking and Network Defense +........................................... 3 |
| Related Area (0-5 credits) |  |
| Select courses with one of the following prefixes to complete a minimum of 61 credits for the Associate in Applied Science (AAS) in Information Technology: |  |
| BPC+++++ | Any BPC Business-Personal Computers courses |
| CIS+++++ <br> courses | Any CIS Computer Information Systems |
| CLD+++++ | Any CLD Cloud Computing courses |
| CNT+++++ | Any CNT Cisco Network Technology courses |
| ITS+++++ | Any ITS Information Technology Security courses |
| MST+++++ | Any MST Microsoft Technology courses |
| Specialization 2: Database Development (36-38 credits) |  |
| Information Technology Core (21-22 credits) |  |
| BPC270 | A+ Exam Prep: Operating System Configuration and Support + (3) OR |
| CIS126DL | Linux Operating System (3) OR |
| CIS126RH | Red Hat System Administration I (3) OR |
| MST150++ | Microsoft Windows (3) .................................................................. 3 |
| CIS105 | Survey of Computer Information Systems .......................................... 3 |
| CIS119DO | Introduction to Oracle: SQL +......................................................... 3 |
| CIS133DA | Internet/Web Development Level I .................................................. 3 |
| CIS156 | Python Programming: Level I + (3) OR |
| CIS162++ | Any C Programming: Level I course + (3) OR |
| CIS163AA | Java Programming: Level I+ (3)...................................................... 3 |
| CIS190 | Introduction to Networking + (3) OR |
| CNT140AB | Introduction to Networks (4) .........................................................3-4 |


| CIS224 | Project Management Microsoft Project for Windows (3) OR |
| :--- | :--- |
| CIS250 | Management of Information Systems (3)................................................ 3 |


| Database Development (15 credits) |  |
| :--- | :--- |
| CIS117DM | Microsoft Access: Database Management (3) OR |
| CIS154 | Database Modeling and Design + (3)..................................................... 3 |
| CIS150++ | Programming Fundamentals +................................................................. 3 |

Related Area (0-2 credits)
Select courses with one of the following prefixes to complete a minimum of 61 credits for the Associate in Applied Science (AAS) in Information Technology:

| BPC++++++ | Any BPC Business-Personal Computers courses |
| :--- | :--- |
| CIS+++++ | Any CIS Computer Information Systems |
| courses |  |
| CLD+++++ | Any CLD Cloud Computing courses |
| CNT+++++ | Any CNT Cisco Network Technology courses |
| ITS+++++ | Any ITS Information Technology Security courses |
| MST+++++ | Any MST Microsoft Technology courses |

Specialization 3: Desktop Support (32-38 credits)
Information Technology Core (24-25 credits)
BPC270 A+ Exam Prep: Operating System Configuration and Support + .............. 3
CIS105 Survey of Computer Information Systems .3

| CIS117DM | Microsoft Access: Database Management (3) OR |
| :--- | :--- |
| CIS119DO | Introduction to Oracle: SQL + (3) OR |
| CIS276DA | MySQL Database + (3) OR |
| CIS276DB | SQL Server Database + (3)...................................................................... 3 |


| CIS126DL | Linux Operating System (3) OR |
| :--- | :--- |
| CIS126RH | Red Hat System Administration I (3)...................................................... 3 |
| CIS133DA | Internet/Web Development Level I ......................................................... 3 |


| CIS190 | Introduction to Networking + (3) OR |
| :--- | :--- |
| CNT140AB | Introduction to Networks (4) ...........................................................3-4 |
| CIS224 | Project Management Microsoft Project for Windows (3) OR |
| CIS250 | Management of Information Systems + (3) .......................................... 3 |

Related Area ( $0-5$ credits)
Select courses with one of the following prefixes to complete a minimum of 61 credits for the Associate in Applied Science (AAS) in Information Technology:

| BPC++++++ | Any BPC Business-Personal Computers courses |
| :--- | :--- |
| CIS+++++ | Any CIS Computer Information Systems courses |
| CLD+++++ | Any CLD Cloud Computing courses |
| CNT+++++ | Any CNT Cisco Network Technology courses |
| ITS+++++ | Any ITS Information Technology Security courses |
| MST+++++ | Any MST Microsoft Technology courses |

Specialization 5: Microsoft Office Professional (31-38 credits)
Information Technology Core (18-19 credits)
CIS105 Survey of Computer Information Systems ............................................... 3
CIS117DM Microsoft Access: Database Management................................................. 3
CIS133DA Internet/Web Development Level I ......................................................... 3
$\begin{array}{ll}\text { CIS150AB } & \text { Object-Oriented Programming Fundamentals + (3) OR } \\ \text { CIS156 } & \text { Python Programming: Level I + (3) OR } \\ \text { CIS162++ } & \text { Any C Programming: Level I course + (3) OR } \\ \text { CIS163AA. } & \text { Java Programming: Level I + (3).......................................................... } 3\end{array}$
$\begin{array}{ll}\text { CIS190 } & \text { Introduction to Networking + (3) OR } \\ \text { CNT140AB } & \text { Introduction to Networks (4) ...............................................................3-4 }\end{array}$
$\begin{array}{ll}\text { MST150++ } & \text { Microsoft Windows (3) OR } \\ \text { BPC270 } & \text { A+ Exam Prep: Operating System Configuration and Support + (3) ......... } 3\end{array}$
Microsoft Office Professional (11-13 credits)
BPC/OAS111AA Computer Keyboarding (1) OR
Permission of Program Director (0).........................................................................................0-1
CIS113DE Microsoft Word: Word Processing........................................................... 3
CIS114DE Excel Spreadsheet ................................................................................... 3
CIS118DB Desktop Presentation: PowerPoint ........................................................... 3
CIS124AA Project Management Software: Level I (1) AND
CIS124BA Project Management Software: Level II (1) OR
CIS224 Project Management Microsoft Project for Windows (3) .2-3

Related Area Credits ( $0-8$ credits)
Select courses with one of the following prefixes to complete a minimum of 61 credits for the Associate in Applied Science (AAS) in Information Technology:
BPC++++++ Any BPC Business-Personal Computers courses
CIS+++++ Any CIS Computer Information Systems courses
CLD+++++ Any CLD Cloud Computing courses
CNT+++++ Any CNT Cisco Network Technology courses
ITS+++++ Any ITS Information Technology Security courses
MST+++++ Any MST Microsoft Technology courses
\(\left.\begin{array}{ll}Specialization 6: Microsoft Server (36-38 credits) <br>
Information Technology Core (21-22 credits) <br>

CIS105 \& Survey of Computer Information Systems ............................................. 3\end{array}\right]\)| CIS117DM | Microsoft Access: Database Management (3) OR |
| :--- | :--- |
| CIS119DO Introduction to Oracle: SQL + (3) OR <br> CIS276DA MySQL Database + (3) OR <br> CIS276DB SQL Server Database + (3)................................................................... 3 |  |
| CIS133DA | Internet/Web Development Level I ........................................................... 3 |


| CIS150AB | Object-Oriented Programming Fundamentals + (3) OR |
| :--- | :--- |
| CIS156 | Python Programming: Level I + (3) OR |
| CIS162++ | Any C Programming: Level I course + (3) OR |
| CIS163AA | Java Programming: Level I + (3)......................................................... 3 |
|  |  |
| CIS190 | Introduction to Networking + (3) OR |
| CNT140AB | Introduction to Networks (4) .......................................................... $3-4$ |
| CIS224 | Project Management Microsoft Project for Windows (3) OR |
| CIS250 | Management of Information Systems (3)............................................. 3 |



Related Area Credits (5-11 credits)
Select courses with one of the following prefixes to complete a minimum of 61 credits for the Associate in Applied Science (AAS) in Information Technology:

| BPC++++++ | Any BPC Business-Personal Computers courses |
| :--- | :--- |
| CIS+++++ | Any CIS Computer Information Systems courses |
| CLD+++++ | Any CLD Cloud Computing courses |
| CNT+++++ | Any CNT Cisco Network Technology courses |
| ITS+++++ | Any ITS Information Technology Security courses |
| MST+++++ | Any MST Microsoft Technology courses |

Specialization 10: Web Foundations (36-38 credits)
Information Technology Core (21-22 credits)

| BPC270 | A+ Exam Prep: Operating System Configuration and Support + (3) OR |
| :--- | :--- |
| CIS126DL | Linux Operating System (3) OR |
| CIS126RH | Red Hat System Administration I (3) OR |
| MST150++ | Microsoft Windows (3) .......................................................................... 3 |

CIS105 Survey of Computer Information Systems ............................................... 3

| CIS117DM | Microsoft Access: Database Management (3) OR |
| :--- | :--- |
| CIS119DO | Introduction to Oracle: SQL + (3) OR |
| CIS276DA | MySQL Database + (3) OR |
| CIS276DB | SQL Server Database + (3)...................................................................... 3 |

CIS133DA Internet/Web Development Level I ......................................................... 3
CIS150AB Object-Oriented Programming Fundamentals + (3) OR
CIS156 Python Programming: Level I + (3) OR
CIS162++ Any C Programming: Level I course + (3) OR
CIS163AA Java Programming: Level I + (3).3

CIS190 Introduction to Networking + (3) OR

CNT140AB Introduction to Networks (4) ..... 3-4
CIS224 Project Management Microsoft Project for Windows (3) OR
CIS250 Management of Information Systems + (3) ..... 3
Web Foundation (15 credits)
CIS120DF Introduction to Adobe Photoshop ..... 3
CIS136 Content Management Systems: WordPress .....  3
CIS166AA Introduction to JavaScript + ..... 3
CIS233DA Internet/ Web Development Level II + .....  3
CIS235 e-Commerce + ..... 3

Related Area Credits ( $0-2$ credits)
Select courses with one of the following prefixes to complete a minimum of 61 credits for the Associate in Applied Science (AAS) in Information Technology:
BPC+++++ Any BPC Business-Personal Computers courses
CIS+++++ Any CIS Computer Information Systems courses

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

| CLD+++++ | Any CLD Cloud Computing courses |
| :--- | :--- |
| CNT+++++ | Any CNT Cisco Network Technology courses |
| ITS+++++ | Any ITS Information Technology Security courses |
| MST+++++ | Any MST Microsoft Technology courses |

Specialization 11: A related Certificate of Completion (CCL) at the discretion of the Program Director (minimum of 11 credits) AND the following core courses with permission of the Program Director. Information Technology Core (21-22 credits)

| CIS105 | Survey of Computer Information Systems ......................................... 3 |
| :---: | :---: |
| CIS117DM | Microsoft Access: Database Management (3) OR |
| CIS119DO | Introduction to Oracle: SQL + (3) OR |
| CIS276DA | MySQL Database + (3) OR |
| CIS276DB | SQL Server Database + (3)............................................................. 3 |
| BPC270 | A+ Exam Prep: Operating System Configuration and Support + (3) OR |
| CIS126DL | Linux Operating System (3) OR |
| CIS126RH | Red Hat System Administration I (3) OR |
| MST150++ | Microsoft Windows (3) .................................................................. 3 |
| CIS150AB | Object-Oriented Programming Fundamentals + (3) OR |
| CIS156 | Python Programming: Level I + (3) OR |
| CIS162++ | Any C Programming: Level I course + (3) OR |
| CIS163AA | Java Programming: Level I + (3)...................................................... 3 |
| CIS190 | Introduction to Networking + (3) OR |
| CNT140AA | Introduction to Networks (4) .........................................................3-4 |
| CIS133DA | Internet/Web Development Level I ................................................... 3 |
| CIS224 | Project Management Microsoft Project for Windows (3) OR |
| CIS250 | Management of Information Systems + (3)........................................ 3 |
| General Education Requirements: 22-28 Credits |  |
| CORE: 12-18 Credits |  |
| First-Year Composition: |  |
| ENG101 | First-Year Composition + (3) OR |
| ENG107 | First-Year Composition for ESL + (3) AND |
| ENG102 | First-Year Composition + (3) OR |
| ENG108 | First-Year Composition for ESL +................................................... 6 |
| Oral Communication: |  |
| COM100 | Introduction to Human Communication (3) OR |
| COM110 | Interpersonal Communication (3) OR |
| COM225 | Public Speaking + (3) OR |
| COM230 | Small Group Communication (3)..................................................... 3 |
| Critical Reading: |  |
| CRE101 | College Critical Reading and Critical Thinking + (3) OR <br> Equivalent as indicated by assessment. |

## Mathematics:

MAT140
MAT141
MAT142
MAT145
MAT146

College Mathematics + (5) OR
College Mathematics + (4) OR
College Mathematics + (3) OR
College Mathematics with Review (5) OR
College Mathematics with Review (6) OR

Equivalent or higher-level mathematics course in the Mathematical Applications [MA] area. 3-6
DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Any approved general education course from the Humanities, Arts and Design [HU] area .. 3

## Social-Behavioral Sciences:

Any approved general education course from the Social-Behavioral Sciences [SB] area3

## Natural Sciences:

Any approved general education course from the Natural Sciences [SG] or [SQ] area. .. 4

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## Information Technology <br> Bachelor of Applied Science - BAS 9302 <br> 120 Credits

The Bachelor of Applied Science (BAS) in Information Technology (IT) is designed to provide students with general skills in information technology foundations, including but not limited to database design and management, cyber security, cloud technology, computer architecture, network architecture, scripting and programming, and operating systems. Students will be prepared to pursue a variety of occupations within the IT industry, such as Network or Database Administrators, IT Project Managers or Systems Analysts, and Cyber Security Specialists.

Program Notes: Students must earn a grade of $C$ or better in each course in the program. The BAS in Information Technology is aligned to current Maricopa CCL and AAS awards and supports students seeking professional advancement.

## Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 82-85 Credits

BPC170 A+ Exam Prep: Computer Hardware Configuration and Support3
BPC270 A+ Exam Prep: Operating System Configuration and Support + ..... 3
CIS105 Survey of Computer Information Systems ..... 3
CIS111 Ethics in Information Technology (3) OR Legal, Ethical, and Regulatory Issues (3) ..... 3
CIS119DO
CIS276DA
CIS276DB SQL Server Database + (3). ..... 3
CIS126DL Linux Operating System (3) OR ..... CIS126RH
Red Hat System Administration I (3) ..... 3
CIS133DA Internet/Web Development Level I ..... 3
CIS150 Programming Fundamentals + (3) OR Object-Oriented Programming Fundamentals + (3) .....  3
CIS156 Python Programming: Level I + .....  3
CIS190 Introduction to Networking + (3) OR Introduction to Networks (4) ..... 3-4
CIS215 Foundations of Data Analytics and Programming +. ..... 3
CIS224 Project Management Microsoft Project for Windows ..... 3
CIS250 Management of Information Systems + ..... 3
CIS270 Essentials of Network and Information Security + (3) OR
CIS271DB Information Security Essentials + (3) ..... 3
CIS324 Information Technology Project Management +. .....  3
CIS350 Advanced Information Technology Management + ..... 4
CIS360 Data Analysis + ..... 4
CIS376 Database Management and Security + ..... 4
CIS390 Network Management + . .....  4
CIS411 Ethics, Regulations, and Legal Issues in Information Technology + ..... 3
CIS470 Enterprise Cyber Security +. .....  4
CIS475 Emerging Trends in Information Technology + ..... 4
Choose two (2) of the following courses for a total of six (6) credits:
COM100 Introduction to Human Communication (3)
COM110 Interpersonal Communication (3)
COM225 Public Speaking + (3)
COM230 Small Group Communication (3) ..... 6
Recommend COM110 and COM225.
FYE101 Introduction to College, Career and Personal Success (1) OR
FYE103 Exploration of College, Career and Personal Success (3) ..... 1-3
MST150EI Configuring Windows 8 (3) OR
MST150SV Microsoft Windows 7 Configuration (3) OR
MST150WT Installing and Configuring Microsoft Windows 10 (3) ..... 3
Restricted Electives: None.
Arizona General Education Curriculum (AGEC) AGEC-A: 26-32 CreditsA single course with an [HU], [SB], [L], or [SG]/[SQ] designation may also be used to satisfy theOral Communication or Awareness Area ([C], [G] and/or [H]) requirement(s). See the AGEC matrix onaztransfer.com for course designations.
First-Year Composition [FYC]:
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) OR
ENG108 First-Year Composition for ESL + .....  6
Literacy and Critical Inquiry [L]:
ENG111 Technical and Professional Writing + ..... 3
Mathematics [MA]:
MAT140 College Mathematics + (5) ORMAT141 College Mathematics + (4) OR
MAT142 College Mathematics + (3) OR
MAT145 College Mathematics with Review (5) ORMAT146 College Mathematics with Review (6) OR
MAT150 College Algebra/Functions + (5) OR

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
MAT151 College Algebra/Functions + (4) OR
MAT152 College Algebra/Functions + (3) OR
MAT155 College Algebra/Functions with Review + (5) OR College Algebra/Functions with Review + (6) OR MAT156 Precalculus + (5) OR MAT187
Higher approved general education course in the Mathematical Applications [MA] area ..... 3-6
Computer/Statistics/Quantitative Applications [CS]:Met by CIS105 in Required Courses.
Humanities, Arts and Design [HU]:
Any approved general education courses in the Humanities, Arts and Design [HU] area .....  .6
Students are encouraged to choose course work from more than one
course that satisfies the Global $[\mathrm{G}]$ or Historical $[\mathrm{H}]$ awareness area.
Social-Behavioral Sciences [SB]:
Any approved general education course in the Social-Behavioral Sciences [SB] area ..... 3
AND
Met by COM100, COM110, or COM230 in the Required Courses area. OR
May be met by two (2) of the following courses:
COM100, COM110, or COM230 in the Required Courses area. ..... 0-3
Natural Sciences [SG/SQ]:
Any approved general education course in the Natural Sciences (Quantitative) [SQ] area (4) ANDAny approved general education course in the Natural Sciences (Quantitative) [SQ] area or the NaturalSciences (General) [SG] area (4)8
The lecture courses selected for Natural Sciences must include or be accompanied by the correspondinglaboratory courses for a total of four credits each. Credits for lecture and lab components may becombined or each may carry separate credit.
Awareness Area Credits: 0-6
Some courses may be used to satisfy both a Core Area and one or more Awareness Area(s).
Cultural Diversity in the US [C]:
Any approved general education course with the Cultural Diversity in the U.S. [C] awareness area designation ..... 0-3
Historical/Global Awareness [H]/[G]:
Any approved general education course with the Historical [H] or Global [G] awareness areadesignation0-3
MCCCD Additional Requirements:
Oral Communication (COM):Met by COM100, COM110, COM225, or COM230 in the Required Courses area
$\qquad$


## General Electives:

Select courses 100-level or higher to complete a minimum of 120 semester credits. Consult with a faculty advisor, program director, and/or academic advisor to identify coursework that best aligns with academic and professional goals0-12

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## iOS App Development <br> Certificate of Completion - CCL 5914N

9-12 Credits
The Certificate of Completion (CCL) in iOS App Development prepares students for positions in app development for the Apple iPad, iPhone, and Apple Watch series. The program emphasizes knowledge and skills required to design, develop, test, and document structured and object-oriented programs utilizing Swift and Xcode. Courses in this certificate can apply toward the Associate in Applied Science (AAS) in Mobile App Development and Certificates of Completion (CCLs) in Native App Development and Mobile App Development.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program.

Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST.

Admission Criteria: None.

## Program Prerequisites: None.

Required Courses: 9-12 Credits
CIS105
Survey of Computer Information Systems (3) OR
Permission of Program Director, Department or Division Chair .0-3

CIS150AB Object-Oriented Programming Fundamentals +........................................ 3
CIS165 Introduction to iOS Application Development + ....................................... 3
CIS265 Advanced iOS Application Development + ............................................. 3

## Restricted Electives: None.

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## Linux Associate <br> Certificate of Completion - CCL 5046N

6-9 Credits
The Certificate of Completion (CCL) in Linux Associate program is designed to help prepare students for employment or to improve current professional skills. The program includes Linux operating system basics and management including sophisticated manipulation of file structures, backup systems, printing processes, troubleshooting, user account management, hard disk maintenance and configuration, process monitoring and prioritizing, kernel customization, and system resource control. This program helps prepare students for the Linux Professional Institute Certification (LPIC-1) and CompTIA Linux + certification exams. Students who complete this program may seek employment in a variety of environments. Students can also pursue additional Certificates of Completion (CCLs) in a variety of specializations within the information technology field to deepen their knowledge and skills and to help prepare them for multiple industry certification examinations. An Associate in Applied Science (AAS) in Network and Systems Administration is also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program. Students who pursue this Certificate of Completion (CCL) should have a basic level of computer literacy including navigating the internet and computer systems or take CIS105 as indicated in the Required Courses area. Students with the requisite skills may have the CIS105 requirement waived by permission of the Program Director. All courses within the Required Courses area are not applicable if taken more than five (5) years prior to the completion of the program. Consult with an academic advisor or program director for exceptions.

## Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 6-9 Credits

CIS105

CIS126DL Linux Operating System.......................................................................... 3
CIS238DL Linux System Administration +............................................................... 3
Restricted Electives: None.

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## Linux System Administration <br> Certificate of Completion - CCL 5052N <br> 15-18 Credits

The Certificate of Completion (CCL) in Linux System Administration program is designed to help prepare students for a variety of industry-recognized Linux certification exams as well as provide practical hands-on skills for the workplace. The program includes a core of Linux classes including Linux operating system basics, system administration, network administration and network security. The courses in the program will help develop a student's knowledge and skill level in preparation for employment or to improve current professional skills. Students who complete this program may seek employment in a variety of environments. The program helps prepare students for the Red Hat Certified System Administrator (RHCSA), Red Hat Certified Engineer (RHCE), and CompTIA Linux+ certification exams. An Associate in Applied Science (AAS) in Network and Systems Administration is also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program. Students who pursue this Certificate of Completion (CCL) should have a basic level of computer literacy including navigating the internet and computer systems or take CIS105 as indicated in the required courses. Students with the requisite skills may have the CIS105 requirement waived by permission of the Program Director. All courses within the Required Courses and Restricted Electives areas are not applicable if taken more than five (5) years prior to the completion of the program. Consult with an Academic Advisor or Program Director for exceptions.

## Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 15-18 Credits

| CIS105 | Survey of Computer Information Systems (3) OR <br> Permission of Program Director (0)......................................................0-3 |
| :--- | :--- |
| Students should select from one of the following two specializations (Linux or Red Hat Enterprise |  |
| Linux): |  |

Specialization: Red Hat Enterprise LinuxCIS126RH Red Hat System Administration I3
CIS238RH Red Hat System Administration II + ..... 3

| CIS239DL | Linux Shell Scripting |
| :---: | :---: |
| CIS240RH | Red Hat System Administration III + |
| CIS275DL | Linux Capstone +. |

## Restricted Electives: None.

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## Microsoft Desktop Associate <br> Certificate of Completion - CCL 5030N <br> 3 Credits

The Certificate of Completion (CCL) in Microsoft Desktop Associate program is designed to provide students with background knowledge and skills required for learning the specific tasks and industry recognized standards associated with how to effectively install and configure Windows operating systems. The course includes basic features of the Windows operating system, virtualization improvements, network connectivity, access to resources, monitor and maintain Windows clients and backup and recovery. It is designed to prepare students for the Microsoft 365 Certified: Modern Desktop Administrator Associate certification exam. Students who complete this program may seek employment in a variety of environments. Students can also pursue additional Certificates of Completion (CCL) in a variety of specializations within the information technology field to deepen their knowledge and skills and to help prepare them for multiple industry certification exams. An Associate in Applied Science (AAS) in Network and Systems Administration is also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program. Students are encouraged, but not required, to complete CIS105, or CIS190, or CNT140AB prior to beginning this CCL. All courses within the Required Courses area are not applicable if taken more than five (5) years prior to the completion of the program. Consult with an academic advisor or program director for exceptions.

Admission Criteria: None.

## Program Prerequisites: None.

Required Courses: 3 Credits
MST150WT
Installing and Configuring Microsoft Windows 10 3

Restricted Electives: None.

CONTACT: Ms. S. Celaya, Program Director:
https://www.phoenixcollege.edu/business

## Microsoft Office Professional Certificate of Completion - CCL 5132 16-22 Credits

The Certificate of Completion (CCL) in Microsoft Office Professional emphasizes training on word processing, spreadsheet, database, and presentation software for business purposes. This certificate provides students with the knowledge and skills requisite of various business settings. This certificate helps with initial preparation for the Microsoft examinations for certification as a Microsoft Office Specialist (MOS). This certificate embeds into the Associate in Applied Science (AAS) degree in Information Technology and Certificate of Complete (CCL) in Microsoft Office Specialist.

Program Notes: Students must earn a grade of C or better in all courses required within the program. Only Required Courses taken within eight (8) years of completion of the program may be applied towards this certificate. Consult with your faculty mentor or academic advisor.Admission Criteria: None.Program Prerequisites: None.
Required Courses: 16-22 Credits
BPC/OAS111AA Computer Keyboarding I (1) OR Permission of Program Director (0) ..... 0-1
CIS105 Survey of Computer Information Systems (3) OR Permission of Program Director (0) ..... 0-3
CIS113DE Microsoft Word: Word Processing ..... 3
CIS114DE Excel Spreadsheet ..... 3
CIS117DM Microsoft Access: Database Management ..... 3
CIS118DB Desktop Presentation: Powerpoint. ..... 3
BPC270 A+ Exam Prep: Operating System Configuration and Support + (3) ORCIS121AECIS122AEMST150++Windows Operating System: Level I (1) ANDWindows Operating System: Level II (1) ORMicrosoft Windows (3)2-3CIS124AA Project Management Software: Level I (1) ANDCIS124BA Project Management Software: Level II (1) ORCIS224

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## Microsoft System Administration Certificate of Completion - CCL 5031 18-21 Credits

The Certificate of Completion (CCL) in Microsoft System Administration program is designed to provide students with background knowledge and skills required for learning the specific tasks and industry recognized standards associated with computer networks and data communications. The program includes a core of Microsoft courses to develop professionals who implement, manage, and troubleshoot existing network and system environments based on current Microsoft operating systems including active directory, messaging services, file and print servers, and firewalls. The courses in the program are also designed to help prepare students for the Microsoft 365 Certified: Modern Desktop Administrator Associate and Microsoft Certified Solutions Associate (MCSA) - Windows Server 2016 certification exams. Students who complete this program may seek employment in a variety of environments. Students can also pursue additional Certificates of Completion (CCL) in a variety of specializations within the information technology field to deepen their knowledge and skills and to help prepare them for multiple industry certification examinations. An Associate in Applied Science (AAS) in Network and Systems Administration is also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program. All courses within the Required Courses area are not applicable if taken more than five (5) years prior to the completion of the program. Consult with an academic advisor or program director for exceptions.

## Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 18-21 Credits

CIS105
Survey of Computer Information Systems (3) OR May be waived by permission of the Program Director (0)0-3

CIS121AH

Microsoft PowerShell/Command Line Operations
.3

MST150++ Any Microsoft Windows course ............................................................... 3
MST155DC Installation, Storage, and Compute with Windows Server +..................... 4
MST157DC Networking with Windows Server +........................................................ 4
MST158DB Installing and Configuring Windows Server + .......................................... 4
Restricted Electives: None.

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## Mobile App Development <br> Associate in Applied Science - AAS 3099 <br> 61-67 Credits

The Associate in Applied Science (AAS) in Mobile App Development provides students with the design and programming skills necessary for entry-level coding, programming, and software development positions with an emphasis on mobile apps. Students will be prepared for transfer to selected BAS programs. Students will be prepared to take the App Developer with Swift Certification Level 1, Microsoft C\# Software Essentials, and Associate Android Developer certifications. A Certificate of Completion (CCL) in iOS Application Development, Android Application Development, Windows Application Development, Web App Development, Native Mobile App Development, Cross-Platform App Development, Foundations of Mobile App Development and Mobile App Development are also available.

Program Notes: Students must earn a grade of C or better in all courses within the program. Students should consult with a Department Advisor in arranging their schedules. Program requirements for CCL 5193 Mobile App Development and CCL 5914N iOS App Development may be taken in the AAS 3099 Mobile App Development. An additional CCL within mobile apps may also be earned based on course selection.

## Admission Criteria: None.

Program Prerequisites: None.

## Required Courses: 25-30 Credits

| CIS105 | Survey of Computer Information Systems (3) OR <br> Permission of Program Director, Department or Division Chair. $\qquad$ .0-3 |
| :---: | :---: |
| CIS120DF | Introduction to Adobe Photoshop...................................................... 3 |
| CIS133DA | Internet/Web Development Level I + ................................................ 3 |
| CIS150AB | Object-Oriented Programming Fundamentals +.................................... 3 |
| CIS156 | Python Programming: Level I + (3) OR |
| CIS159 | Visual Basic Programming I + (3) OR |
| CIS163AA | Java Programming: Level I + (3).................................................... 3 |
| CIS162AD | C\# Level I + (3) |
| CIS165 | Introduction to IOS Application Development + |
| CIS165DA | Introduction to Android Application Development +............................. 3 |
| CIS165DB | C\#/VB.NET: Windows 8 App Development + (3) OR |
| CIS165DC | Xamarin/C\# Cross Platform Development + (3) |
| FYE101 | Introduction to College, Career and Personal Success (1) OR |
| FYE103 | Exploration of College, Career and Personal Success (3) ....................1-3 |

## Restricted Electives: 9 Credits

Students must select one additional course from the following. Course may not apply to both Required Courses and Restricted Electives areas.
CIS156 Python Programming: Level I + .............................................................. 3
CIS159 Visual Basic Programming I +.................................................................. 3
CIS166AA Introduction to JavaScript + .................................................................... 3
CIS166AE Web Scripting with PHP: Hypertext Preprocessor (PHP) +...................... 3
Students must select two additional courses from the following. Courses may not apply to both Required Courses and Restricted Electives areas.
CIS225 Business Systems Analysis and Design + ............................................... 3
CIS233DA Internet/ Web Development Level II +..................................................... 3
CIS262AD C\# Level II +.......................................................................................... 3
CIS265 Advanced iOS Application Development + ............................................. 3
CIS265DA Advanced Android Application Development $+\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots . . \begin{aligned} & \\ & 3\end{aligned}$
CIS276DA MySQL Database +................................................................................ 3
CIS276DB SQL Server Database +.......................................................................... 3
General Electives: 0-5 Credits
Select additional courses 100 -level or higher to complete a minimum of 60 semester credits. Consult with the Program Director or an Academic Advisor.

General Education Requirements: 22-28 Credits
CORE: 12-18 Credits
First-Year Composition:

Mathematics:
MAT140 College Mathematics + (5) OR
MAT141 College Mathematics + (4) OR
MAT142 College Mathematics + (3) OR
MAT145 College Mathematics with Review (5) OR
MAT146 College Mathematics with Review (6) OR
Equivalent or higher-level mathematics course in the Mathematical Applications [MA] area. 3-6

DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Any approved general education course in the Humanities, Arts and Design area........................ 3
Social-Behavioral Sciences:
Any approved general education course in the Social-Behavioral Sciences area........................... 3
Natural Sciences:
Any approved general education course in the Natural Sciences area .. 4

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## Mobile App Development Certificate of Completion - CCL 5193 33-36 Credits

The Certificate of Completion (CCL) in Mobile App Development prepares students for employment in entry-level coding, programming, and software development positions with an emphasis on mobile apps. Students will be prepared to take the App Developer with Swift Certification Level 1, Microsoft C\# Software Essentials, and Associate Android Developer certifications. An Associate in Applied Science (AAS) in Mobile App Development and Certificates of Completion (CCL) in iOS Application Development, Android Application Development, Windows Application Development, Web App Development, Native Mobile App Development, Cross-Platform App Development and Foundations of Mobile App Development are also available.

Program Notes: Students must earn a grade of C or better in all courses within the program. Students should consult with a Department Advisor in arranging their schedules. Program requirements for CCL 5914N iOS App Development may be taken in the CCL 5193 Mobile App Development. An additional CCL within mobile apps may also be earned based on course selection.

Admission Criteria: None.
Program Prerequisites: None.

| Required Courses: 24-27 Credits |  |
| :---: | :---: |
| CIS105 | Survey of Computer Information Systems (3) OR |
|  | Permission of Program Director, Department or Division Chair............0-3 |
| CIS120DF | Introduction to Adobe Photoshop. |
| CIS133DA | Internet/ Web Development Level I + |
| CIS150AB | Object-Oriented Programming Fundamentals +.................................... 3 |
| CIS156 | Python Programming: Level I + (3) OR |
| CIS159 | Visual Basic Programming I + (3) OR |
| CIS163AA | Java Programming: Level I + (3)...................................................... 3 |
| CIS162AD | C\# Level I + (3) |
| CIS165 | Introduction to IOS Application Development + ................................... 3 |
| CIS165DA | Introduction to Android Application Development +............................ 3 |
| CIS165DB | C\#/VB.NET: Windows 8 App Development + (3) OR |
| CIS165DC | Xamarin/C\# Cross Platform Development + (3) |

Restricted Electives: 9 Credits
Students must select one additional course from the following. Course may not apply to both Required Courses and Restricted Electives areas.
CIS156
Python Programming: Level I + .3
CIS159
Visual Basic Programming I + . .3

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
CIS166AA Introduction to JavaScript + ..... 3
CIS166AE Web Scripting with PHP: Hypertext Preprocessor (PHP) + ..... 3

Students must select two additional courses from the following. Courses may not apply to both Required Courses and Restricted Electives areas.
CIS225 Business Systems Analysis and Design + ................................................ 3
CIS233DA Internet/Web Development Level II +..................................................... 3
CIS262AD C\# Level II + ........................................................................................... 3
CIS265 Advanced iOS Application Development + ............................................. 3
CIS265DA Advanced Android Application Development $+\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots .$.
CIS276DA MySQL Database +................................................................................ 3
CIS276DB
SQL Server Database +............................................................................ 3

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## Native Mobile App Development <br> Certificate of Completion - CCL 5063

## 18-21 Credits

The Certificate of Completion (CCL) in Native Mobile App Development prepares students for employment in entry-level coding, programming, and software development positions with an emphasis on native iOS and Android mobile apps. This CCL will help students prepare to take the App Developer with Swift Certification Level 1 and Associate Android Developer certifications. Courses in this certificate can apply toward the Associate in Applied Science (AAS) in Mobile App Development and Certificate of Completion (CCL) in Mobile App Development.

Program Notes: Students must earn a grade of C or better in all courses within the program. Students should consult with a Department Advisor in arranging their schedules. Program requirements for CCL/5834N Android Application Development and CCL/5914N iOS App Development may be taken in the CCL/5063 Native Mobile App Development.

Admission Criteria: None.

Program Prerequisites: None.

| Required Courses: | 18-21 Credits <br> CIS105 |
| :--- | :--- |
|  | Survey of Computer Information Systems (3) OR <br> Permission of Program Director, Department or Division Chair............ $0-3$ |
| CIS150 | Programming Fundamentals + (3) OR |
| CIS156 | Python Programming: Level I + (3) OR |
| CIS159 | Visual Basic Programming I + (3) OR |
| CIS162AD | C\# Level I + (3) OR |

Restricted Electives: None.

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## Network and Systems Administration

## Associate in Applied Science - AAS 3189

## 61-74 Credits

The Associate in Applied Science (AAS) in Network and Systems Administration program provides students with a solid, hands-on skill set of computer, networking, and internetworking systems technology principles and desktop support. Students gain an understanding of the interaction between microcomputer software and hardware, network and internetworking operating systems software and hardware, local area network administration and management, the use of troubleshooting techniques, troubleshooting hardware and software tools, as well as interpersonal/customer service skills. Students have the opportunity to specialize in specific information technology areas based on their interests and professional goals and leading to industry recognized certifications through an embedded Certificate of Completion (CCL) including, but not limited to, Desktop (Desktop Support, Computer System Configuration and Support, Computer System Configuration and Support, Network, Computer System Configuration and Support, Security, Computer System Configuration and Support, Linux), Cisco (Cisco Network CCNA, Cisco Network CCNP, Cisco Network CCNA Security), Linux (Red Hat Linux Engineer, Linux Associate, Red Hat Linux Administrator, Linux System Administration), Microsoft (Microsoft System Administration, Microsoft Desktop Associate), and VMware (VMware Network Administrator, VMware Foundations, VMware System Administrator). Graduates may pursue employment in a variety of information technology environments and/or transfer to a university.

Program Notes: Students must earn a grade of C or better in all courses within the program.
Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST.

Students may receive credit for courses within the program based on current industry certifications.
Admission Criteria: None.

## Program Prerequisites: None.

Required Courses: 31-46 Credits

| BPC170 | A+ Exam Prep: Computer Hardware Configuration and Support + ......... 3 |
| :---: | :---: |
| BPC270 | A+ Exam Prep: Operating System Configuration and Support + ............. 3 |
| CIS102DA | Customer User Support. |
| CIS105 | Survey of Computer Information Systems .......................................... 3 |
| CIS126DL | Linux Operating System (3) OR |
| CIS126RH | Red Hat System Administration I (3) |
| CIS190 | Introduction to Networking + (3) OR |
| CNT140AB | Introduction to Networks (4) ..........................................................3-4 |

(CNT140AB is required for students on the Cisco specialization)

| FYE101 | Introduction to College, Career and Personal Success (1) OR |
| :---: | :---: |
| FYE103 | Exploration of College, Career and Personal Success (3) ....................1-3 |
| Students must also select from one of the following areas of specialization based on their career goals. Specialization 1: Cisco System Administration (CCNA) and Security ( 12 credits) |  |
|  |  |
| CNT150AB | Switching, Routing, and Wireless Essentials + . . . . . . . . . . . . . . . . . . . 4 |
| CNT160AB | Enterprise Networking, Security, and Automation + . . . . . . . . . . . . . . . 4 |
| CNT202 | Cisco Secure Firewall Appliance Configuration + (4) OR |
| CNT205 | Cisco Certified Network Associate Security + (4) ........................................ 4 |
| Specialization 2: Cisco System Administration (CCNP) (24 credits) |  |
| CNT150AB | Switching, Routing, and Wireless Essentials + ....................... . 4 |
| CNT160AB | Enterprise Networking, Security, and Automation + ................. 4 |
| CNT240 | Cisco Certified Network Professional: Enterprise Core + (8) OR |
| CNT240AA | Cisco Certified Network Professional: Enterprise Core I + (4) AND |
| CNT240AB | Cisco Certified Network Professional: Enterprise Core II + (4) ............... 8 |
| CNT250 | Cisco Certified Network Professional: <br> Enterprise Advanced Routing and Services + (8) OR |
| CNT250AA | Cisco Certified Network Professional: <br> Enterprise Advanced Routing and Services I + (4) AND |
| CNT250AB | Cisco Certified Network Professional: <br> Enterprise Advanced Routing and Services II + (4). .. 8 |
| Specialization 3: Linux System Administration (15 credits) |  |
| CIS238DL | Linux System Administration + ....................................................... 3 |
| CIS239DL | Linux Shell Scripting +................................................................ 3 |
| CIS240DL | Linux Network Administration +..................................................... 3 |
| CIS271DL | Linux Security + ......................................................................... 3 |
| CIS275DL | Linux Capstone +......................................................................... 3 |
| Specialization 4: Red Hat Enterprise Linux Administration (15 credits) |  |
| CIS238RH | Red Hat System Administration II +................................................. 3 |
| CIS239DL | Linux Shell Scripting + ................................................................... 3 |
| CIS240RH | Red Hat System Administration III + ............................................... 3 |
| CIS271RH | Red Hat System Administration IV + .............................................. 3 |
| CIS275DL | Linux Capstone + ......................................................................... 3 |
| Specialization 5: Cloud System Administration (15-16 credits) |  |
| BPC274 | Advanced Server Computer Maintenance: Server+ Prep + .................... 3 |
| CIS121AH | Microsoft PowerShell/Command Line Operations ...................................... 3 |
| CIS239DL | Linux Shell Scripting +................................................................ 3 |
| MST160 | Azure Administrator + (4), OR |
| CLD110 | Amazon Web Services Cloud Foundations + (3)......................................3-4 |
| MST260 | Microsoft Azure Cloud Development and Operations + (3) OR |
| CLD120 | Amazon Web Services Cloud Architect Associate + (3)........................ 3 |

Specialization 6: VMware Network Administrator (12 credits)
CIS189 Virtualization and IT Solutions for Digital Businesses ............................. 3
CIS197 VMware ESXI Server Enterprise +. .....  3
CIS198 VMware vSphere: Optimize and Scale + ..... 3
CIS200 VMware NSX: Install, Configure, Manage + ..... 3
Restricted Electives: 0-8 CreditsStudents are to select enough Restricted Elective credits to meet a minimum of 60 credits not used tosatisfy Required Courses or selected specializations within the Required Courses. Consult with anAcademic, Program, or Faculty Advisor to pick courses that align with your career goals.
Cisco Electives
CNT140AB Introduction to Networks ..... 4
CNT150AB Switching, Routing, and Wireless Essentials + ..... 4
CNT160AB Enterprise Networking, Security, and Automation + ..... 4
CNT171 CCNA Exam Prep + . ..... 1
CNT202 Cisco Secure Firewall Appliance Configuration + (4) OR
Cisco Certified Network Associate Security + (4) ..... 4
CNT206 Cisco Certified Network Associate Wireless + ..... 4
Linux Electives
CIS238DL Linux System Administration + (3) OR CIS238RH Red Hat System Administration II + (3) ..... 3
CIS239DLLinux Shell Scripting + ..... 3
CIS240DL Linux Network Administration + (3) OR
CIS240RH Red Hat Systems Administration III + (3) ..... 3
CIS275DL Linux Capstone + ..... 3
Microsoft Electives

MST+++++
CIS121AB
CIS121AH
Security Electives
CIS270
CIS271DB Information Security Essentials +
Information Security Principles +............................................................. 3
CIS272DB Information Security Principles +
Information Security Fundamentals + ..... 3
VMware ElectivesVirtualization and IT Solutions for Digital Businesses 3
CIS197 VMware ESXI Server Enterprise + .....  3
CIS198 VMware vSphere: Optimize and Scale + ..... 3
CIS200 VMware NSX: Install, Configure, Manage + ..... 3
Other Information Technology Electives
BPC171 Recycling Used Computer Technology ..... 1-3
CIS111 Ethics in Information Technology ..... 3
CIS124AA Management Software: Level I. ..... 1
CIS124BA Project Management Software: Level II + ..... 1
CIS156 Python Programming: Level I + ..... 3
CIS190 Introduction to Networking + ..... 3
CIS224 Project Management Microsoft Project for Windows ..... 3
CIS240 Local Area Network Planning and Design + .....  3
CIS250 Management of Information Systems + .....  3
CIS266 Network Integration Capstone + ..... 4
CIS290++ Computer Information Systems Internship ..... 1-3
CIS296++ Cooperative Education + ..... 1-4
CIS298++ Special Projects + ..... 1-3
ITS120 Legal, Ethical, and Regulatory Issues + .....  3
General Education Requirements: 22-28 Credits CORE: 12-18 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG102 First-Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) OR
ENG108 First-Year Composition for ESL (3) + OR
ENG111 Technical and Professional Writing (3) .....  6
(ENG111 does not count as an ENG Transfer option)
Oral Communication:
COM100 Introduction to Human Communication (3) OR
COM110 Interpersonal Communication (3) OR
COM225 Public Speaking + (3) OR
COM230 Small Group Communication (3) ..... 3
COM225 is recommended for students transferring to Northern Arizona University.
Critical Reading:
CRE101 College Critical Reading and Critical Thinking + (3) OR
Equivalent by assessment0-3
Mathematics:
MAT140 College Mathematics + (5) ORMAT141 College Mathematics + (4) OR
MAT142 College Mathematics + (3) OR
MAT145 College Mathematics with Review (5) OR
MAT146 College Mathematics with Review (6) OREquivalent or higher-level mathematics course in the Mathematical Applications area3-6
DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Any approved general education course from the Humanities, Arts and Design area ..... 3
Social-Behavioral Sciences:
Any approved general education course from the Social-Behavioral Sciences area ..... 3
Natural Sciences:
Any approved general education course from the Natural Sciences area. ..... 4

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## Programming and Systems Analysis <br> Associate in Applied Science - AAS 3844 <br> 62-71 Credits

The Associate in Applied Science (AAS) in Programming and Systems Analysis program provides an in-depth exploration of different computer language and technical skills. The AAS includes, but is not limited to the following: operating systems, local area networks, business communication, team roles, and dynamics. Certificate of Completions (CCLs) in Programming and Systems Analysis Level I and Level II and iOS App Development are also available.

Program Notes: Students must earn a grade of C or better in all courses required within the program. Consultation with an Academic Advisor is recommended for course selection. Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST.

## Admission Criteria: None.

Program Prerequisites: None.
Required Courses: 34-37 Credits
CIS105 Survey of Computer Information Systems ..... 3
GBS151 Introduction to Business ..... 3
CIS126DL Linux Operating System (3) OR
CIS126RH Red Hat System Administration I (3) OR MST150++ Any Microsoft Windows course + (3). ..... 3
CIS133DA Internet/ Web Development Level I ..... 3
Students interested in pursuing an iOS Certificate of Completion (CCL) are recommended to takeCIS150AB.CIS150 Programming Fundamentals + (3) ORCIS150AB Object-Oriented Programming Fundamentals + (3) 3
CIS166++ Any Web Scripting course(s) + ..... 3
CIS190 Introduction to Networking + (3) ORCNT140AAMST140CIS250Introduction to Networks (4) OR
Microsoft Networking Essentials + (3) ..... 3-4
CIS225 Business Systems Analysis and Design + (3) OR
CIS225AB Object-Oriented Analysis and Design + (3) OR
Management of Information Systems + (3) ..... 3

| CIS119DO | Introduction to Oracle: SQL + (3) OR |
| :--- | :--- |
| CIS276DA | MySQL Database + (3) OR |
| CIS276DB | SQL Server Database + (3) .................................................................. 3 |
|  |  |
| FYE101 | Introduction to College, Career and Personal Success (1) OR |
| FYE103 | Exploration of College, Career and Personal Success (3).....................1-3 |

Select a programming language from below that best aligns with academic and professional goals (2 courses for a total of 6 credits) in one of the following areas:
CIS156
CIS256
CIS159
CIS259
CIS162++
CIS262++ Any C Programming: Level II course + (3) OR
CIS163AA Java Programming: Level I + (3) AND
CIS263AA Java Programming: Level II + (3) OR
CIS165++ Any Mobile Application Development course + (3) AND
CIS265 Advanced iOS Application Development + (3) .. 6

## Restricted Electives: 6 Credits

Students may not use courses from the Required Courses area.
CIS224 Project Management Microsoft Project for Windows................................ 3
CIS151 Computer Game Development-Level I +................................................. 3
CIS156 Python Programming: Level I + .............................................................. 3
CIS159 Visual Basic Programming I +................................................................. 3
CIS162++ Any C Programming: Level I course +.................................................... 3
CIS163AA Java Programming: Level I + ................................................................. 3
CIS165++ Any Mobile Application Development course +......................................... 3
CIS251 Computer Game Development-Level II +................................................ 3
CIS259 Visual Basic Programming II + ................................................................ 3
CIS262++ Any C Programming: Level II course +................................................... 3
CIS263AA Java Programming: Level II +................................................................ 3
CIS265 Advanced iOS Application Development + ............................................ 3
GBS211 Legal, Ethical and Regulatory Issues of the Internet Studies..................... 3
General Education Requirements: 22-28 Credits
CORE: 12-18 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) OR
ENG108 First-Year Composition for ESL +........................................................... 6
Oral Communication:
Any approved general education course in the Oral Communication area .. 3
Critical Reading:
CRE101
College Critical Reading and Critical Thinking + (3) OR Equivalent as indicated by assessment (0). 0-3

## Mathematics:

MAT150
MAT151
MAT152
MAT155
MAT156

College Algebra/Functions + (5) OR College Algebra/Functions + (4) OR College Algebra/Functions + (3) OR College Algebra/Functions with Review + (5) OR College Algebra/Functions with Review + (6)3-6

DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Any approved general education course in the Humanities, Arts and Design [HU] area ............. 3
Social-Behavioral Sciences:
ECN211
ECN212
SBU200
Natural Sciences:
Any approved general education course in the Natural Sciences (Quantitative) [SQ] area or the Natural Sciences (General) [SG] area.

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## Programming and Systems Analysis Level I Certificate of Completion - CCL 5048

## 24 Credits

The Certificate of Completion (CCL) in Programming and Systems Analysis Level I provides an exploration of different computer language and technical skills. The CCL includes, but is not limited to the following: operating systems, local area networks, business communication, team roles, and dynamics. A Certificate of Completion (CCL) in Programming and Systems Analysis Level II, Certificate of Completion (CCL) in iOS App Development and an Associate in Applied Science (AAS) in Programming and Systems Analysis are also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program. Consultation with an Academic Advisor is recommended for course selection. Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST.

## Admission Criteria: None.

Program Prerequisites: None.

| Required Courses: 24 Credits |  |
| :---: | :---: |
| CIS105 | Survey of Computer Information Systems |
| CIS119DO | Introduction to Oracle: SQL + (3) OR |
| CIS276DA | MySQL Database + (3) OR |
| CIS276DB | SQL Server Database + (3) ............................................................. 3 |
| CIS126DL | Linux Operating System (3) OR |
| CIS126RH | Red Hat System Administration I (3) OR |
| MST150++. | Any Microsoft Windows course + (3). |
| CIS133DA | Internet/Web Development Level I.................................................. 3 |
| CIS150 | Programming Fundamentals + (3) OR |
| CIS 150AB | Object-Oriented Programming Fundamentals + (3) ...................................... 3 |
| CIS166++ | Any Web Scripting course(s) + ........................................................ 3 |
| GBS151 | Introduction to Business ................................................................. 3 |
| Select a programming language from below that best aligns with academic and professional goals ( course for a total of 3 credits) in one of the following areas: |  |
| CIS156 | Python Programming: Level I + (3) OR |
| CIS159 | Visual Basic Programming I + (3) OR |
| CIS162++ | Any C Programming: Level I course + (3) OR |
| CIS163AA | Java Programming: Level I + (3) OR |
| CIS165++ | Any Mobile Application Development course + (3)............................. 3 |

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

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## Programming and Systems Analysis Level II Certificate of Completion - CCL 5962 <br> 36-38 Credits

The Certificate of Completion (CCL) in Programming and Systems Analysis Level II provides an indepth exploration of different computer language and technical skills. This CCL includes, but is not limited to the following: local area networks, team roles, and dynamics. A Certificate of Completion (CCL) in iOS Application Development and an Associate in Applied Science (AAS) in Programming and Systems Analysis are available.

Program Notes: Students must earn a grade of C or better for all courses required within the program. Consultation with an Academic Advisor is recommended for course selection. Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST.

## Admission Criteria: None.

Program Prerequisites: None.

## Required Courses: 33-34 Credits

The following courses are required and included in the Certificate of Completion (CCL) in Programming and Systems Analysis Level I.
CIS105 Survey of Computer Information Systems.3

| CIS119DO | Introduction to Oracle: SQL + (3) OR |
| :--- | :--- |
| CIS276DA | MySQL Database + (3) OR |
| CIS276DB | SQL Server Database + (3).................................................................... 3 |
|  |  |
| CIS126DL | Linux Operating System (3) OR |
| CIS126RH | Red Hat System Administration I (3) OR |
| MST150++ | Any Microsoft Windows course + (3)................................................. 3 |

CIS133DA Internet/Web Development Level I ..... 3
CIS150 Programming Fundamentals + (3) OR
Object-Oriented Programming Fundamentals + (3) ..... 3
CIS156 Python Programming: Level I + (3) ORCIS159Visual Basic Programming I + (3) ORAny C Programming: Level I course + (3) ORJava Programming: Level I + (3) ORAny Mobile Application Development course + (3)3
CIS166++ Any Web Scripting course(s) + ..... 3
Introduction to Business ..... 3

The following courses are required for the CCL in Programming and Systems Level II:
CIS190 Introduction to Networking + (3) OR
CNT140AB Introduction to Networks (4) OR
MST140 Microsoft Networking Essentials + (3)

| CIS225 | Business Systems Analysis and Design + (3) OR |
| :--- | :--- |
| CIS225AB | Object-Oriented Analysis and Design + (3) OR |
| CIS250 | Management of Information Systems + (3) .............................................. 3 |

## Restricted Electives: 3-4 Credits

Select one of the courses below that best aligns with academic and professional goals for a total of 3 credits. Students may not choose courses they have taken from the Required Courses area.
CIS151 Computer Game Development-Level I +................................................ 3
CIS156 Python Programming: Level I + .............................................................. 3
CIS159 Visual Basic Programming I +................................................................. 3
CIS162++ Any C Programming: Level I course +.................................................... 3
CIS163AA Java Programming: Level I + .................................................................. 3
CIS165++ Any Mobile Application Development course +........................................ 3
CIS224 Project Management Microsoft Project for Windows ................................ 3
CIS251 Computer Game Development-Level II +................................................ 3
CIS256 Python Programming: Level II +............................................................. 3
CIS259 Visual Basic Programming II + ............................................................... 3
CIS262++ Any C Programming: Level II course +................................................... 3
CIS263AA Java Programming: Level II +.................................................................. 3
CIS265 Advanced iOS Application Development + ............................................ 3
CIS267 Pega System Architect Essentials + ......................................................... 4
GBS211 Legal, Ethical and Regulatory Issues of the Internet Studies..................... 3

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## Red Hat Linux Administrator Certificate of Completion - CCL 5049N <br> 6-9 Credits

The Certificate of Completion (CCL) in Red Hat Linux Administrator program is designed to help prepare students for employment or to improve current professional skills. The program includes Red Hat Enterprise Linux system basics and management including sophisticated manipulation of file structures, backup systems, troubleshooting, user account management, hard disk maintenance and configuration, process monitoring and prioritizing, and system resource control. This program helps prepare students for the Red Hat Certified System Administrator (RHCSA) certification exam. Students who complete this program may seek employment in a variety of environments. Students can also pursue additional Certificates of Completion (CCLs) in a variety of specializations within the information technology field to deepen their knowledge and skills and help prepare them for multiple industry certification examinations. An Associate in Applied Science (AAS) in Network and Systems Administration is also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program. Students who pursue this Certificate of Completion (CCL) should have a basic level of computer literacy including navigating the internet and computer systems or take CIS105 as indicated in the Required Courses area. Students with the requisite skills may have the CIS 105 requirement waived by permission of the Program Director. All courses within the Required Courses area are not applicable if taken more than five (5) years prior to the completion of the program. Consult with an academic advisor or program director for exceptions.

## Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 6-9 Credits

CIS105

CIS126RH Red Hat System Administration I............................................................ 3
CIS238RH
Red Hat System Administration II +. .3

Restricted Electives: None.

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## Red Hat Linux Engineer <br> Certificate of Completion - CCL 5050N <br> 9-12 Credits

The Certificate of Completion (CCL) in Red Hat Linux Engineer program is designed to help prepare students for employment or to improve current professional skills. The program includes in depth Red Hat Enterprise Linux system networking including integrating Linux servers and workstations into a network environment with multi-platform network operating systems with a variety of open- standard and proprietary protocols. This program helps prepare students for the Red Hat Certified System Administrator (RHCSA) and Red Hat Certified Engineer (RHCE) certification exams. Students who complete this program may seek employment in a variety of environments. Students can also pursue additional Certificates of Completion (CCL) in a variety of specializations within the information technology field to deepen their knowledge and skills and help prepare them for multiple industry certification examinations. An Associate in Applied Science (AAS) in Network and Systems Administration is also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program. Students who pursue this Certificate of Completion (CCL) should have a basic level of computer literacy including navigating the internet and computer systems or take CIS105 as indicated in the Required Courses area. Students with the requisite skills may have the CIS 105 requirement waived by permission of the Program Director. All courses within the Required Courses area are not applicable if taken more than five (5) years prior to the completion of the program. Consult with an Academic Advisor or Program Director for exceptions.

## Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 9-12 Credits

CIS105

CIS126RH
CIS238RH
CIS240RH
Restricted Electives: None.

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## VMware Foundations <br> Certificate of Completion - CCL 5035N <br> 3 Credits

The Certificate of Completion (CCL) in VMware Foundations program is designed to help students prepare for VMware industry certifications and work in a variety of information technology environments including software defined data centers. The program introduces vSphere and VMware ESXi server in the enterprise and covers many aspects of virtualization for VMware ESXi server administration. It is designed to prepare students for the VMware Foundations (VCA) certification exam. Students can also pursue additional Certificates of Completion (CCLs) in a variety of specializations within the information technology field to deepen their knowledge and skills and to help prepare them for multiple industry certification examinations. An Associate in Applied Science (AAS) in Network and Systems Administration is also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program. All courses within the Required Courses area are not applicable if taken more than five (5) years prior to the completion of the program. Consult with an academic advisor or program director for exceptions.

Admission Criteria: This Certificate of Completion (CCL) is intended for industry professionals with the requisite experience. To pursue this CCL, students must complete the prerequisites to the courses within the Required Courses area as follows OR receive permission of the Program Director:
CIS105 Survey of Computer Information Systems ............................................... 3

| BPC170 | A+ Exam Prep: Computer Hardware Configuration and Support + (3) AND |
| :--- | :--- |
| BPC270 | A+ Exam Prep: Operating System Configuration and Support + (3) OR |
| MST150++ | Any Windows Operation Course (3).................................................6-6 |
| CIS126DL | Linux Operating System (3) OR |
| CIS126RH | Red Hat System Administration I (3)...................................................... |
|  |  |
| CIS190 | Introduction to Networking + (3) OR |
| CNT140A | Introduction to Networks (4) ............................................................3-4 |

Students also have the option to complete the full CCL in this program, VMware Network Administrator (major code 5032), that includes the prerequisites and required courses.

Program Prerequisites: None.
Required Courses: 3 Credits
CIS197
VMware ESXI Server Enterprise +. .3

Restricted Electives: None.

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## VMware Systems Administrator Certificate of Completion - CCL 5033N <br> 6 Credits

The Certificate of Completion (CCL) in VMware Systems Administrator program is designed to help students prepare for VMware industry certifications and work in a variety of information technology environments including software defined data centers. The program introduces vSphere and VMware ESXi server in the enterprise and covers many aspects of virtualization for VMware ESXi server administration. It includes advanced skills for configuring and maintaining a highly available and scalable virtual infrastructure and is designed to prepare students for the VMware VCA and VCP certification exams. Students can also pursue additional Certificates of Completion (CCLs) in a variety of specializations within the information technology field to deepen their knowledge and skills and to help prepare them for multiple industry certification examinations. An Associate in Applied Science (AAS) in Network and Systems Administration is also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program. All courses within the Required Courses area are not applicable if taken more than five (5) years prior to the completion of the program. Consult with an academic advisor or program director for exceptions.

Admission Criteria: This Certificate of Completion (CCL) is intended for industry professionals with the requisite experience. To pursue this CCL, students must complete the prerequisites to the courses within the Required Courses area as follows OR receive permission of the Program Director:
CIS105
Survey of Computer Information Systems
.3
BPC170 A+ Exam Prep: Computer Hardware Configuration and Support + (3) AND
BPC270 A+ Exam Prep: Operating System Configuration and Support + (3) OR
MST150++
Any Windows Operation Course (3).
3-6
CIS126DL Linux Operating System (3) OR
CIS126RH Red Hat System Administration I (3)
.3
CIS190 Introduction to Networking + (3) OR
CNT140AB Introduction to Networks (4) ............................................................... 3-4
Students also have the option to complete the full CCL in this program, VMware Network Administrator (major code 5032), that includes the prerequisites and required courses.

Program Prerequisites: None.
Required Courses: 6 Credits
CIS197 VMware ESXI Server Enterprise +.......................................................... 3
CIS198 VMware vSphere: Optimize and Scale +................................................ 3
Restricted Electives: None.

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## Web App Development <br> Certificate of Completion - CCL 5835N

9-12 Credits
The Certificate of Completion (CCL) in Web App Development prepares students for employment in entry-level coding, programming, and software development positions with an emphasis on web apps. Courses in this certificate can apply toward the Associate in Applied Science (AAS) in Mobile App Development and Certificates of Completion (CCL) in Mobile App Development and Cross-Platform App Development.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses within the program. Students should consult with a Department Advisor in arranging their schedules. Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 9-12 CreditsCIS105 Survey of Computer Information Systems (3) OR
Permission of Program Director, Department or Division Chair (0) ..... 0-3
CIS133DA Internet/ Web Development Level I + ..... 3
CIS166AA Introduction to JavaScript + ..... 3
CIS233DA Internet/ Web Development Level II + .....  3
Restricted Electives: None.

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## Web Design/Development <br> Associate in Applied Science - AAS 3185 <br> 61-70 Credits

The Associate in Applied Science (AAS) in Web Design/Development prepares students to design, create, and administer interactive and professional web sites. Courses focus on "hands-on" experience with web publishing, web graphics preparation, scripting, content management systems and ecommerce solutions. The program provides students a pathway to either develop advanced skills in Web Design or Web Development. Certificates of Completion (CCLs) in Foundational Web Technologies, Web Design and Web Development are also available.

Program Notes: Students must earn a grade of C or better in each course in the program.
Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST.

## Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 22-24 Credits

In addition to the required course work students must consult with a program advisor to select one of the specializations within the Restricted Electives area.
CIS105 Survey of Computer Information Systems ..... 3
CIS120DF Adobe Photoshop Level I: Digital Imaging ..... 3
CIS133DA Internet/Web Development Level I ..... 3
CIS136 Content Management Systems: WordPress .....  3
CIS166AA Introduction to JavaScript + ..... 3
CIS233DA Internet/ Web Development Level II + ..... 3
CIS235 e-Commerce + ..... 3FYE101 Introduction to College, Career and Personal Success (1) ORFYE103Exploration of College, Career and Personal Success (3)1-3

Restricted Electives: 17-22 Credits
Complete all courses in the specialization below that best aligns with your academic and professional goals. Consult with an academic, faculty, or program advisor.

Specialization I: Web Design (17-22 credits)
AVC183
Digital Graphic Arts I (3) OR
AVC100 Introduction to Digital Arts (1) AND
AVC181
Graphic Design I (3) OR
ART112 Two-Dimensional Design (3)...............................................................3-4

| CIS120DA | Introduction to Digital Video Editing: Adobe Premiere (3) OR |
| :--- | :--- |
| CIS120DK | Introduction to Digital Video Editing (3)................................................. 3 |

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

| CIS120DB | Computer Graphics: Adobe Illustrator |
| :---: | :---: |
| CIS120DC | Adobe Animate: Digital Animation (3) OR |
| CIS220DF | Adobe Photoshop Level II: Advanced Digital Imaging + (3).................. 3 |
| CIS138DA | Desktop Design and Publishing Using Adobe InDesign +..................... 3 |
| Students must select 2 to 6 credits in consultation with your program advisor to further develop skil the areas of Adobe, Art, Social Media, Marketing, Business and/or Multimedia. |  |
| Specialization II: Web Development (18 credits) |  |
| CIS119DO | Introduction to Oracle: SQL + (3) OR |
| CIS276++ | Database Management Systems course + (3)............................. 3 |
| CIS126DL | Linux Operating System (3) OR |
| CIS126RH | Red Hat System Administration I (3)............................................... 3 |
| CIS166AE | Web Scripting with PHP: Hypertext Preprocessor (PHP) +.................... 3 |
| Programming Language: Select two courses for a total of 6 credits. |  |
| CIS150AB | Object-Oriented Programming Fundamentals + |
| CIS156 | Python Programming: Level I + ...................................................... 3 |
| CIS159 | Visual Basic Programming I +......................................................... 3 |
| CIS162++ | Any C Programming course + ......................................................... 3 |
| CIS163AA | Java Programming: Level I + ......................................................... 3 |
| CIS165++ | Any Mobile Application Development course +................................... 3 |
| CIS256 | Python Programming: Level II +...................................................... 3 |
| CIS262AD | C\# Level II + |
| CIS263AA | Java Programming: Level II +......................................................... 3 |
| CIS265++ | Any Advanced Application Development +....................................... 3 |
| Students must select 3 credits of any course with a CIS prefix in consultation with their program ad to further develop skills in the areas of Databases, Information Systems, Programming, and/or Ope Systems. |  |
| General Education: 22-28 Credits |  |
| CORE: 12-18 Credits |  |
| First-Year Composition: |  |
| ENG101 | First-Year Composition + (3) OR |
| ENG107 | First-Year Composition for ESL + (3) AND |
| ENG102 | First-Year Composition + (3) OR |
| ENG108 | First-Year Composition for ESL + (3) ............................................... 6 |
| Oral Communication: |  |
| Any approved general education course from the Oral Communication area.......................... 3 |  |
| Critical Reading: |  |
| CRE101 | College Critical Reading and Critical Thinking + (3) OR <br> Equivalent as indicated by assessment (0) . |

## Mathematics:

Any approved general education course in the Mathematics area
(MAT140, MAT141, MAT142, MAT145, MAT146 College Mathematics) OR (MAT150, MAT151, MAT152, MAT155, MAT156 College Algebra/Functions) OR
higher math course with the Mathematical Applications [MA] general education designation recommended for students intending to transfer to a four-year institution.

MAT187 Precalculus is recommended for students intending to transfer to ASU (Tempe campus) to earn a BS in Graphic Information Technology.

DISTRIBUTION: 10 Credits

## Humanities, Arts and Design:

Any approved general education course from the Humanities, Arts and Design area3

Social-Behavioral Sciences:
Any approved general education course from the Social-Behavioral Sciences area .3
PSY101 Introduction to Psychology is recommended for students intending to transfer to ASU
(Polytechnic campus) to earn a BS in Technical Communication (User Experience) or to ASU (Tempe campus) to earn a BS in Graphic Information Technology.
Natural Sciences:
Any approved general education course from the Natural Sciences area4

CONTACT: Mr. B. Olsen, Program Director: (602) 532.8711
brad.olsen@phoenixcollege.edu and/or
https://www.phoenixcollege.edu/iti

## Web Development Certificate of Completion - CCL 5988 39 Credits

The Certificate of Completion (CCL) in Web Development prepares students to create and administer interactive and professional websites. The program provides students with knowledge and skills in developing dynamic websites, client and server-side programs, database structures, and object-oriented design. A Certificate of Completion (CCL) in Web Design and an Associate in Applied Science (AAS) in Web Design/Development are also available.

Program Notes: Students must earn a grade of C or better in each course in the program. Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST.

Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 36 Credits

The following courses are required and included in the CCL in Web Foundations.
CIS105
Survey of Computer Information Systems .............................................. 3
CIS120DF Introduction to Adobe Photoshop............................................................. 3
CIS133DA Internet/Web Development Level I ......................................................... 3
CIS136 Content Management Systems: WordPress ............................................... 3
CIS166AA Introduction to JavaScript + .................................................................... 3
CIS233DA Internet/Web Development Level II +...................................................... 3
CIS235 e-Commerce + .......................................................................................... 3
The following courses are required for the CCL in Web Development.
CIS166AE $\quad$ Web Scripting with PHP: Hypertext Preprocessor (PHP) + ...................... 3

| CIS119DO | Introduction to Oracle: $\mathrm{SQL}+(3) \mathrm{OR}$ |
| :--- | :--- |
| CIS276++ | Any Database Management Systems course + (3) .................................... 3 |


| CIS126DL | Linux Operating System (3) OR |
| :--- | :--- |
| CIS126RH | Red Hat System Administration I (3)........................................................ 3 |

Programming Language: Select two courses for a total of 6 credits.
CIS150AB Object-Oriented Programming Fundamentals +......................................... 3
CIS156 Python Programming: Level I + .............................................................. 3
CIS159 Visual Basic Programming I +................................................................. 3
CIS162++ Any C Programming course +................................................................. 3
CIS163AA Java Programming: Level I + .................................................................. 3
CIS165++ Any Mobile Application Development course........................................... 3
CIS256 Python Programming: Level II + ............................................................. 3
CIS262AD C\# Level II +............................................................................................ 3

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

Restricted Electives: 3 Credits
Students should select any course with a CIS prefix in consultation with their program advisor to further develop skills in the areas of Databases, Information Systems, Programming, and/or Operating Systems.

CONTACT: Mr. B. Olsen, Program Director: (602) 532.8711
brad.olsen@phoenixcollege.edu and/or
https://www.phoenixcollege.edu/iti

## Web Foundations

## Certificate of Completion - CCL 5984

21 Credits
The Certificate of Completion (CCL) in Web Foundations introduces students to designing and developing web pages. This CCL prepares students for entry level web positions. Certificates of Completion (CCL) in Web Design and Web Development are available. An Associate in Applied Science (AAS) degree in Web Design/ Development is also available.

Program Notes: Students must earn a grade of C or better in each course in the program.
Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 21 Credits
CIS105 Survey of Computer Information Systems ............................................... 3
CIS120DF Adobe Photoshop Level I: Digital Imaging ............................................... 3
CIS133DA Internet/Web Development Level I ......................................................... 3
CIS136 Content Management Systems: WordPress .............................................. 3
CIS166AA Introduction to JavaScript + ................................................................ 3
CIS233DA Internet/Web Development Level II +..................................................... 3
CIS235 e-Commerce + .......................................................................................... 3

## Restricted Electives: None.

CONTACT: Mr. W. Tagart, Program Director: (602) 532.8712
wallace.tagart@phoenixcollege.edu and/or
https://www.phoenixcollege.edu/iti

## Windows App Development <br> Certificate of Completion - CCL 5833N

9-12 Credits
The Certificate of Completion (CCL) in Windows App Development prepares students for employment in entry-level coding, programming, and software development positions with an emphasis on Windows platform and cross-platform apps. This CCL will help prepare students to take the MTA Software Development Fundamentals C\# certification. Courses in this certificate can apply toward the Associate in Applied Science (AAS) in Mobile App Development and Certificates of Completion (CCLs) in Cross- Platform App Development and Mobile App Development.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all courses within the program. Students should consult with a Department Advisor in arranging their schedules. Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST.

Admission Criteria: None.

## Program Prerequisites: None.

| Required Courses: $9-12$ Credits |  |
| :--- | :--- |
| CIS105 | Survey of Computer Information Systems (3) OR <br> Permission of Program Director, Department or Division Chair (0) ...... 0-3 |
| CIS162AD | C\#: Level I +...................................................................................... 3 |

Restricted Electives: None.

## Culture and Society

CONTACT: (602) 285.7651 and/or
PC-Liberal-Arts@phoenixcollege.edu

## American Indian Studies <br> Academic Certificate - AC 6208N <br> 15 Credits

The Academic Certificate (AC) in American Indian Studies program explores the unique experiences of the American Indian people living in the Southwest and provides students the opportunity to study the cultures, values, histories, and contemporary lives of the indigenous people of North America. The Certificate includes courses that investigate their language, literature, arts, philosophy, religions, and politics.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program. Federal Indian policy stipulates tribal preference in hiring, which should be considered in seeking employment with tribal nations and selected federal agencies. Seek advice of the tribal agency for available employment opportunities.

## Admission Criteria: None.

## Program Prerequisites: None.

Required Courses: 12 Credits
$\begin{array}{ll}\text { ENG101 } & \text { First-Year Composition + (3) OR } \\ \text { ENG107 } & \text { First-Year Composition for ESL }+(3) \ldots \ldots \ldots \ldots \ldots \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~\end{array} 3$
AIS/SOC105 Introduction to American Indian Studies.................................................. 3
AIS/SOC160 American Indian Law.............................................................................. 3
$\begin{array}{ll}\text { AIS213/REL203 } & \text { American Indian Religions + (3) OR } \\ \text { AIS/HIS140 } & \text { American Indian History (3)..................................................................... } 3\end{array}$

## Restricted Electives: 3 Credits

Select at total of 3 credits from the following list except those used to satisfy Required Courses area.
AIS+++ Any AIS American Indian Studies course +............................................. 3
ARH145 History of American Indian Art............................................................... 3
CCS101 Chicano and Chicana Studies................................................................... 3
ENH259 American Indian Literature...................................................................... 3
GCU221 Arizona Geography ................................................................................. 3
HIS+++ Any HIS History course ............................................................................ 3
NAV+++ Any NAV Navajo course + .................................................................1-3
SPH245 Hispanic Heritage in the Southwest .......................................................... 3

CONTACT: (602) 285.7651 and/or
PC-Liberal-Arts@phoenixcollege.edu

## Chicana and Chicano Studies <br> Academic Certificate - AC 6230N <br> 12-13 Credits

The Academic Certificate (AC) in Chicana and Chicano Studies explores the unique experiences of the Chicana and Chicano people living in the Southwest. The Certificate provides a study of MexicanAmerican life in the society of the United States, including Mexican background, social and cultural differences, and experiences of assimilation.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program.

Admission Criteria: None.

| Program Prerequisites: $3-6$ Credits |  |
| :--- | :--- |
| ENG101 | First-Year Composition + (3) OR |
| ENG107 | First-Year Composition for ESL + (3) .................................................... 3 |

Required Courses: 9 Credits
CCS101 Chicana and Chicano Studies +3

HIS109

Mexican-American History and Culture ..... 3
SPH245 Hispanic Heritage in the Southwest ..... 3
Restricted Electives: 3-4 Credits
ENH112 Chicano Literature ..... 3
HIS145 History of Mexico ..... 3
HUM213 Hispanic Film ..... 3
SPA101 Elementary Spanish I ..... 4
SPA102 Elementary Spanish II + ..... 4
SPA103 Elementary Spanish for Spanish Speakers I + ..... 4
SPA104 Elementary Spanish for Spanish Speakers II + .....  4
SPA201 Intermediate Spanish I + ..... 4
SPA202 Intermediate Spanish II + .....  4
SPA203 Spanish for Spanish-Speaking Students I + ..... 4
SPA204 Spanish for Spanish-Speaking Students II + .....  4

CONTACT: Mr. J. Kilduff (602) 285.7824 and/or
josiah.kilduff@phoenixcollege.edu

## Creative Writing <br> Academic Certificate - AC 6224N

## 24 Credits

The Academic Certificate (AC) in Creative Writing program is designed to provide students and professional writers with access to a community of writers and creative writing activities, instruction and guidance from established authors, and ongoing support in improving their writing skills and marketing their work. As students take courses in the program, they will build a portfolio of original work that may be submitted for publication. The program offers classes, workshops, and other activities such as readings and contests, which are accessible to writers of all levels regardless of academic or professional standing. The program aims to serve a diverse community who may be underrepresented in traditional creative writing programs. Completion of the certificate does not lead to a particular degree program, but may aid students in their pursuit of a career in the writing professions and in their continued enjoyment of writing for personal growth.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program.

Admission Criteria: Students wishing to enroll in the Creative Writing program must complete a formal application; contact Program Director.

## Program Prerequisites: None.

Required Courses: 21 Credits
ENG210 may be substituted for CRW150 with permission of Program Director.
CRW150 Introduction to Creative Writing.............................................................. 3
CRW200 must be repeated for a total of two (2) credits.
CRW200 Readings for Writers (1)2

CRW201 Portfolio................................................................................................... 1
Students must complete six (6) credits from Series I and nine (9) credits from Series II in consultation with a Program Director.

## Series I:

Students must complete two (2) of the following courses for a total of six (6) credits.
CRW120 Introduction to Writing Children's Literature.3
CRW160 Introduction to Writing Poetry .....  3
CRW170 Introduction to Writing Fiction ..... 3
CRW172 Introduction to Comic Book Writing .....  3
CRW180 Introduction to Writing Nonfiction ..... 3
CRW190 Introduction to Screenwriting. ..... 3
THE118 Playwriting .....  3
Series II:
Students must complete three (3) of the following courses for a total of nine (9) credits.
CRW202 The Writer as Witness + ..... 3
CRW203 Dialogue + ..... 3
CRW204 Journaling + ..... 3
CRW220 Intermediate Writing Children's Literature + .....  3
CRW251 Topics in Creative Writing ..... 3
CRW260 Intermediate Poetry Writing + ..... 3
CRW261 Topics in Writing: Poetry + ..... 3
CRW270 Intermediate Fiction Writing + ..... 3
CRW271 Topics in Writing: Fiction + ..... 3
CRW272 Planning and Structuring the Novel + .....  3
CRW273 Writing the Novel + ..... 3
CRW274 Revising the Novel + ..... 3
CRW281 Topics in Writing: Non-Fiction + .....  3
CRW290 Intermediate Screenwriting +...... .....  3
CRW291 Topics in Writing: Plays + ..... 3
Restricted Electives: 3 Credits
CRW++++++ ..... 1-3ENG/THE260
ENG235 Magazine Article Writing ..... 3Film Analysis3
ENH+++++
ENH+++++ Any ENH English Humanities prefixed course + Any ENH English Humanities prefixed course +
HUM/THF210 Contemporary Cinema ..... 3 ..... 3 .....  3

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## International Studies <br> Academic Certificate - AC 6213N

12-13 Credits
The Academic Certificate (AC) in International Studies program will provide students the opportunity to broaden their horizons and their understanding of our increasingly interdependent global society. The Certificate approaches broad cultural issues and includes a strong emphasis on world politics and religions. It also includes developing proficiency in cross-cultural communications and the capacity to navigate world cultures. Proficiency in a modern language is also an integral part of the Certificate.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all courses required within the program. Study abroad credit may replace courses identified as electives with the approval of the Program Director or Department Chairperson.

Admission Criteria: None.

Program Prerequisites: 3-6 Credits
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) ...................................................... 3

CRE101 $\begin{aligned} & \text { College Critical Reading and Critical Thinking + (3) OR } \\ & \text { Equivalent as indicated by assessment................................................ 0-3 }\end{aligned}$
Required Courses: 9 Credits
REL100 World Religions ........................................................................................ 3
POS120 World Politics .......................................................................................... 3
$\begin{array}{ll}\text { POS140 } & \text { Comparative Government (3) OR } \\ \text { POS210 } & \text { Political Ideologies (3) ............................................................................. } 3\end{array}$
Restricted Electives: 3-4 Credits
ASB102 Culture in a Globalizing World ................................................................. 3
HIS102 History of Western Civilization 1789 to Present....................................... 3
SPH245 Hispanic Heritage in the Southwest ......................................................... 3
Any of the following Foreign Language courses:
FRE+++ Any FRE/French course $(101,201)$ (4) OR
ITA+++ Any ITA/Italian course $(101,201)$ (4) OR
JPN+++ Any JPN/Japanese course (101, 201) (4) OR
NAV+++ Any NAV/Navajo course $(101,201)$ (4) OR
SPA+++ Any SPA/Spanish course $(101,201)$ (4).
.4

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PC-Liberal-Arts@phoenixcollege.edu

## Southwest Studies <br> Academic Certificate - AC 6209N <br> 25 Credits

The Southwest Studies Program applies a broad, interdisciplinary approach to the study of the peoples and places of the American Southwest. Three certificates in American Indian Studies, Chicano- Chicana Studies, and Southwest Studies are available. Certificates may be attained independently of any degree program, but students may also apply course credits toward a degree. Students enrolled in the Southwest Studies Certificate will study the environment of the region and how people have historically related to that environment. The Certificate approaches the cultural issues more broadly and includes a stronger emphasis on the ecology, geography, and political history of the region.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all courses required within the program.

## Admission Criteria: None.

| Program Prerequisites: $3-6$ Credits |  |
| :--- | :--- |
| ENG101 | First-Year Composition + (3) OR |
| ENG107 | First-Year Composition for ESL + (3) $\ldots \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~$ | 3

CRE101 College Critical Reading and Critical Thinking + (3) OR Equivalent as indicated by assessment (0) ..... 0-3
Required Courses: 13 Credits
BIO109 Natural History of the Southwest ..... 4
GCU221 Arizona Geography .....  3
HIS105 Arizona History ..... 3
HIS106 Southwest History ..... 3
Restricted Electives: 12 Credits
AIS/HIS170 American Indian History of the Southwest .....  3
ASB235 Southwest Archaeology ..... 3
BIO105 Environmental Biology .....  4
ENH112 Chicano Literature ..... 3
EDU230 Cultural Diversity in Education .....  3
ENH259 American Indian Literature ..... 3
ENH260 Literature of the Southwest ..... 3
HIS109 Mexican-American History and Culture .....  3
HIS145 History of Mexico ..... 3
POS220 U.S. and Arizona Constitution .....  3
SPH245 Hispanic Heritage in the Southwest ..... 3

## Education

CONTACT: (602) 285.7651 and/or
PC-Liberal-Arts@phoenixcollege.edu

## Early Childhood Education <br> Associate in Applied Science - AAS 3186 <br> 61-74 Credits

The Associate in Applied Science (AAS) in Early Childhood Education (ECE) program is designed to prepare individuals for employment as early childhood professionals in a variety of educational settings. The AAS program includes courses based on current ECE theory and practice as well as general education classes to broaden a student's base of knowledge. Certificates of Completion are also available.

Program Notes: Students must earn a grade of C or better for all courses within the program. For some employment and field experiences (including internship courses), students will be required to have a current Identity Verified Print (IVP) Fingerprint Clearance Card and a current TB vaccination.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 30-37 Credits
CFS/ECH176 Child Development (3) OR
CFS235
EED205 The Developing Child: Prenatal to Age Eight (3......................................... 3
EED225 Language and Literacy in the Context of Culture and Relationships ......... 3
CFS101AH Art Activities for the Young Child (1) AND
ECH281 Movement/Music for the Young Child (1) OR
EED210 Creative and Cognitive Play + (3) OR
ECH128 Early Learning: Play and the Arts (3) ...................................................2-3
EED200 Foundations of Early Childhood Education . . . . . . . . . . . . . . . . 3
CFS/ECH271 Arranging the Environment (1) AND
CFS282
ECH282
Mainstreaming The Young Child with A Disability (1) AND
Discipline/Guidance of Child Groups (1) OR
EED212 Guidance, Management and the Environment (3)
CFS123 Health and Nutrition In Early Childhood Settings (1) AND
CFS125 Safety in Early Childhood Settings (1) AND
ECH280 Food Experiences With Young Children (1) OR
EED215 Early Learning: Health, Safety, Nutrition and Fitness (3)......................... 3
EED222 Introduction to the Exceptional Young Child: Birth to Age Eight (3) OR
EDU222 Introduction to the Exceptional Learner (3).............................................. 3
CFS/ECH269 Child Care Seminar (1) AND

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

| CFS/ECH287 | Professional Development in Early Childhood Education (1) OR |
| :---: | :---: |
| EED255 | Portfolio Development and Writing for the Profession (3)...................2-3 |
| CFS/ECH284AB | Early Childhood Teaching Internship + (3) OR |
| EED260 | Early Childhood Infant/Toddler Internship + (1) AND |
| EED261 | Early Childhood Preschool Internship + (1) OR |
| CFS/ECH284AA | Early Childhood Teaching Internship + (1) ......................................2-3 |
| ECH272 | Science for the Young Child (1) AND |
| CFS/ECH273 | Math for the Young Child (1) AND |
| CFS/ECH275 | Literacy Development and the Young Child (1) AND |
| ECH279 | Early Childhood Curriculum Development (1) OR |
| EED278 | Early Learning: Curriculum and Instruction - Birth/Preschool + (3) .... 3-4 |
| ECH140 | Learning Made Visible Through Documentation (1) AND |
| ECH270 | Observing Young Children (1) OR |
| EED280 | Standards, Observation and Assessment of Typical/Atypical Behaviors of Young Children Birth Age Eight +(3).. |
| FYE101 | Introduction to College, Career and Personal Success (1) OR |
| FYE103 | Exploration of College, Career and Personal Success (3) ....................1-3 |
| Restricted Electives: 9-12 Credits |  |
| Students must sele degree. Students the requirements | $9-12$ credits from the following and must complete a minimum of 60 credits for the encouraged to consult with a faculty advisor or student services analyst to identify heir desired academic and professional goals: |
| CFS+++ | Any CFS Child/Family Studies course(s) |
| ECH+++ | Any ECH Early Childhood Education course(s) |
| EDU+++ | Any EDU Education course(s) |
| EED+++ | Any EED Early Education course(s) |
| FCS+++ | Any FCS Family and Consumer Science course(s) |
| ITD+++ | Any ITD Infant/Toddler Development course(s) |
| General Education Requirements: 19-25 Credits |  |
| CORE: 12-18 Credits |  |
| First-Year Composition: |  |
| ENG101 | First-Year Composition + (3) OR |
| ENG107 | First-Year Composition for ESL + (3) AND |
| ENG102 | First-Year Composition + (3) OR |
| ENG108 | First-Year Composition for ESL + (3) .............................................. 6 |
| Oral Communication: |  |
| Any approved general education course from the Oral Communication area.......................... 3 |  |
| Note: COM225 is recommended for students who wish to transfer to the BAE at ASU. |  |
| Critical Reading: |  |
| CRE101 | College Critical Reading and Critical Thinking + (3) OR |
|  | Equivalent as indicated by assessment .............................................0-3 |

## Mathematics:

MAT112 Mathematical Concepts and Applications + (3) OR
Satisfactory completion of a higher-level mathematics course $\qquad$
Note: MAT14+ College Mathematics or any approved general education course in the Mathematical Application [MA] area may be required for students intending to transfer to a bachelor's degree program.

DISTRIBUTION: 7 Credits
Humanities, Arts and Design:
Any approved general education course from the Humanities, Arts and Design area $\qquad$ .3

Recommend: EDU/ENH291 Children's Literature OR EDU/HUM/STO292 The Art of Storytelling
Social-Behavioral Sciences:
Fulfilled by EDU222 or EED222 in Required Courses area. .0
Natural Sciences:
Any approved general education course from the Natural Sciences area. .4

CONTACT: (602) 285.7651 and/or
PC-Liberal-Arts@phoenixcollege.edu

## Early Childhood Education <br> Certificate of Completion - CCL 5056

36 Credits
The Certificate of Completion (CCL) in Early Childhood Education program is designed to prepare students for employment as early childhood teachers in a variety of educational programs. Students learn effective teaching skills as they apply developmentally appropriate early childhood educational theory in the classroom setting. Courses have been selected with a focus on developing an educational career ladder. An Associate in Applied Science (AAS) in Early Childhood Education is also available and includes additional early childhood electives and general education classes to broaden the student's base of knowledge.

Program Notes: Students must earn a grade of C or better for all courses within the program. For some employment and field experiences (including internship courses), students will be required to have a current Identity Verified Print (IVP) Fingerprint Clearance Card and a current TB vaccination.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 29-34 Credits
CFS/ECH176 Child Development (3) OR
CFS235 Developing Child: Theory into Practice, Prenatal to Age Eight (3) OR
EED205 The Developing Child: Prenatal to Age Eight (3) ...................................... 3
EED200 Foundations of Early Childhood Education............................................... 3
CFS/ECH271 Arranging the Environment (1) AND
CFS282
ECH282
Mainstreaming The Young Child with A Disability (1) AND Discipline/Guidance of Child Groups (1) OR
Guidance, Management and the Environment (3) .3

CFS123 Health and Nutrition In Early Childhood Settings (1) AND
CFS125
ECH280
Safety in Early Childhood Settings (1) AND
Food Experiences With Young Children (1) OR
Early Learning: Health, Safety, Nutrition and Fitness (3) .3

CFS101AH Art Activities for the Young Child (1) AND
ECH281
ECH128
Movement/Music for the Young Child (1) OR
Early Learning: Play and the Arts (3) OR
EED210
Creative and Cognitive Play + (3)
2-3
EED222 Introduction to the Exceptional Young Child: Birth to Age Eight (3) OR
EDU222 Introduction to the Exceptional Learner (3)

CFS/ECH275
ECH272
ECH279
EED278
EED225 Language and Literacy in the Context of Culture and Relationships (3) ... 3
ECH140 Learning Made Visible Through Documentation (1) AND
ECH270
EED280

ECH269
ECH287
EED255
CFS/ECH284AB
EED260
EED261
CFS/ECH284AA
Literacy Development and the Young Child (1) AND
Science for the Young Child (1) AND
Early Childhood Curriculum Development (1) OR
Early Learning: Curriculum and Instruction - Birth/Preschool + (3)......3-4

Observing Young Children (1) OR
Standards, Observation and Assessment of Typical/Atypical Behaviors of Young Children Birth Age Eight + (3) 2-3

Child Care Seminar (1) AND
Professional Development in Early Childhood Education (1) OR Portfolio Development and Writing for the Profession (3)2-3

Early Childhood Teaching Internship + (3) OR
Early Childhood Infant/Toddler Internship + (1) AND
Early Childhood Preschool Internship + (1) OR
Early Childhood Teaching Internship (1). 2-3

## Restricted Electives: 2-7 Credits

Students must select 2-7 credits from the following courses to meet a minimum of 36 credits for the certificate. Cannot be shared with Required Courses area.
CFS+++ Any CFS Child/Family Studies course(s)
ECH+++ Any ECH Early Childhood Education course(s)
EDU+++ Any EDU Education course(s)
EED+++ Any EED Early Education course(s)
FCS+++ Any FCS Family and Consumer Science course(s)
ITD+++

Any ITD Infant/Toddler Development course(s)

CONTACT: (602) 285.7651 and/or
PC-Liberal-Arts@phoenixcollege.edu

## Foundations of Early Childhood Education <br> Certificate of Completion - CCL 5054 18-19 Credits

The Certificate of Completion (CCL) in Foundations of Early Childhood Education is designed to prepare students with foundational knowledge regarding the growth and development of the young child. Topics include cognitive and physical development of the young child, language acquisition, curriculum development, health and safety guidelines, business procedures, and family/community relationship building. This CCL is embedded (can be used to fulfill part of the requirements) in a second available CCL, Early Childhood Education. Both CCLs are embedded (can be used to fulfill requirements) in the Associate in Applied Science (AAS) in Early Childhood Education.

Program Notes: Students must earn a grade of C or better for all courses within the program. For some employment and field experiences (including internship courses), students will be required to have a current Identity Verified Print (IVP) Fingerprint Clearance Card and a current TB vaccination.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 18-19 Credits
CFS/ECH176 Child Development (3) OR
CFS235 Developing Child: Theory into Practice, Prenatal to Age Eight (3) OR
EED205 The Developing Child: Prenatal to Age Eight (3) ...................................... 3
EED200 Foundations of Early Childhood Education............................................... 3
CFS/ECH271 Arranging the Environment (1) AND
CFS282
ECH282 Discipline/Guidance of Child Groups (1) OR
EED212 Guidance, Management and the Environment (3) .......................................... 3
CFS123 Health and Nutrition In Early Childhood Settings (1) AND
CFSS125 Safety in Early Childhood Settings (1) AND
ECH280 Food Experiences With Young Children (1) OR
EED215
Early Learning: Health, Safety, Nutrition and Fitness (3) .3

CFS101AH Art Activities for the Young Child (1) AND
ECH281
ECH128
Movement/Music for the Young Child (1) OR
Early Learning: Play and the Arts (3) OR
EED210
Creative and Cognitive Play + (3)
EED222 Introduction to the Exceptional Young Child: Birth to Age Eight (3) OR
EDU222 Introduction to the Exceptional Learner (3)

CFS/ECH284AA
EED260
EED261

Early Childhood Teaching Internship + (1) OR
Early Childhood Infant/Toddler Internship + (1) OR
Early Childhood Preschool Internship + (1)
Restricted Electives: None.
General Electives: None.

## Health Sciences

CONTACT: Ms. R. Helminski, Program Director:
(602) 285.7295 or
marty.minton@phoenixcollege.edu

## Basic Phlebotomy <br> Certificate of Completion - CCL 5209N <br> 4 Credits

The Certificate of Completion (CCL) in Basic Phlebotomy program is designed to prepare a person to obtain blood specimens by skin puncture and venipuncture in supervised labs. Students in the Basic Phlebotomy program will be in contact with potentially infectious blood, tissues, and body fluids. The Certificate of Completion (CCL) in Clinical Phlebotomy is also available. Upon satisfactory completion of the program, the students are eligible to take a national certification examination.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all courses within the program. This program does not contain a clinical component.

## PHOENIX COLLEGE STUDENTS:

Formal application and admission to the program is required. For further information, contact a Health Professions academic advisor or the Program Director.
GATEWAY COMMUNITY COLLEGE:
GateWay Community College also offers a clock-based certificate in Phlebotomy: https://www.gatewaycc.edu/phlebotomy

## Admission Criteria: ALL STUDENTS:

High School diploma or GED.
Ability to fully participate in classroom and laboratory setting program activities.

## PHOENIX COLLEGE STUDENTS:

Formal application and admission to the program are required. Applications can be obtained from the Program Director, a Health Professions Advisor, or from the Phoenix College website.

## GATEWAY COMMUNITY COLLEGE STUDENTS:

For program Admission information on the clock-based certificate in Basic Phlebotomy visit: www.gatewaycc.edu/phlebotomy

Program Prerequisites: None.
Required Courses: 4 Credits
PLB109 Phlebotomy: Basic Skills +...................................................................... 2
PLB111 Specimen Processing and Advanced Techniques
in Phlebotomy Procedures + .2

Restricted Electives: None.

CONTACT: (602) 285.7295 or
marty.minton@phoenixcollege.edu

## Clinical Medical Assisting <br> Certificate of Completion - CCL 5291

 37-40 CreditsThe Certificate of Completion (CCL) in Clinical Medical Assisting provides education and training for employment as Medical Assistants. Medical assistants are integral members of the administrative and clinical healthcare team in various healthcare settings. Medical assistants act as liaisons between the healthcare providers and patients, and are of vital importance to the success of the medical practice. Upon successful completion of the program, students are eligible to take the national certification exam. An Associate in Applied Science (AAS) in Medical Assisting and a Certificate of Completion (CCL) in Medical Administrative Assisting are also available.

Program Notes: Per programmatic accreditation requirements, students must pass all the psychomotor and affective skills contained within each course in order to successfully complete the course. Students cannot repeat a course more than once. Students must earn a grade of C or better for all courses required within the program.

Admission Criteria: Formal application and admission to the program is required. Students must be at least 18 years of age to apply for admission. Must be a high school graduate or equivalent. Completion of the Certificate of Completion (CCL) in Medical Administrative Assisting (5295). Submit current CPR/BLS Provider card (American Heart Association approved) and maintain current status throughout the practicum(s). Complete and submit the Allied Health Student Health and Safety Documentation Checklist, with included documentation, signed by a licensed healthcare provider.

## Background Check Requirements

Admission to an Allied Health program requires that students be in compliance with the Maricopa County Community College District Supplemental Background Check policy. Program applications will not be accepted without a copy of an Arizona Department of Public Safety Level One Fingerprint Clearance Card. Students must maintain current fingerprint clearance throughout the practicum(s). Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy.

Program Prerequisites: None.
Required Courses: 37-40 Credits
BIO160
Introduction to Human Anatomy and Physiology .. 4

CRE101 College Critical Reading and Critical Thinking + (3) OR Equivalent as indicated by assessment (0) 0-3

ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3).
.3

MAT114 College Algebra Prep ............................................................................... 4
MAS200 Medical Conversions and Calculations for Medical Assisting + ................ 2
MAS201 Fundamentals of Clinical Medical Assisting + .............................................. 6
MAS202 Laboratory Testing in Ambulatory Healthcare Settings + ......................... 6
MAS203 Medical Assisting Pharmacology + ......................................................... 6

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

MAS204
MAS205

Clinical Medical Assisting Practicum +.................................................. 4
Medical Assisting Program Review +...................................................... 2

CONTACT: Ms. R. Helminski, Program Director:
(602) 285.7295 or
marty.minton@phoenixcollege.edu

## Clinical Phlebotomy <br> Certificate of Completion - CCL 5279N <br> 7 Credits

The Certificate of Completion (CCL) in Clinical Phlebotomy program is designed to prepare a person to obtain blood specimens by skin puncture and venipuncture in supervised labs and clinical settings. Students in the Clinical Phlebotomy program will be in contact with potentially infectious blood, tissues, and body fluids. Upon satisfactory completion of the program, the students are eligible to take a national certification examination. A Certificate of Completion (CCL) in Basic Phlebotomy is also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all courses within the program. Students must complete 120 hours in a clinical setting.

## PHOENIX COLLEGE STUDENTS:

Formal application and admission to the program is required. For further information, contact a Health Professions academic advisor or the Program Director.

## GATEWAY COMMUNITY COLLEGE:

GateWay Community College also offers a clock-based certificate in Phlebotomy: https://www.gatewaycc.edu/phlebotomy

Admission Criteria: ALL STUDENTS: High School diploma or GED. Ability to fully participate in classroom, laboratory, or clinical setting program activities. Submit current CPR card for Health Care Provider and maintain current status throughout the practicum(s). Proof of current immunization: Measles, Mumps, and Rubella (MMR), Tuberculosis skin test (TB), Varicella, Tetanus/Diphtheria (Td), and Hepatitis B (HEB) vaccine, and COVID-19 vaccination and/or booster. Maintain compliance in immunization tracker and clinical compliance trackers. Complete and submit the required proof of immunity and health declaration form signed by a licensed healthcare provider. Submit to a drug screening and demonstrate negative results.

## Background Check Requirements

Admission to an Allied Health program requires that students be in compliance with the Maricopa County Community College District Supplemental Background Check policy. Program applications will not be accepted without a copy of an Arizona Department of Public Safety Level One Fingerprint Clearance Card. Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy.

## PHOENIX COLLEGE STUDENTS:

Formal application and admission to the program are required. Applications can be obtained from the Program Director, a Health Professions Advisor, or from the Phoenix College web site.

## GATEWAY COMMUNITY COLLEGE STUDENTS:

For program Admission information on the clock-based certificate in Phlebotomy visit: www.gatewaycc.edu/phlebotomy

Program Prerequisites: None.

Restricted Electives: None.

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

CONTACT: Mr. G. Trainor, Program Director: (602) 285.7125

Community Health Paramedicine Certificate of Completion - CCL 5017N<br>8 Credits<br>The Certificate of Completion (CCL) in Community Health Paramedicine is designed to provide the knowledge, skills and ability to synthesize standard of care and expanded scope of practice with comprehensive assessment, diagnostic technology, patient advocacy, ethical and professional behaviors, to practice patient-centered evidence-based paramedicine in the community setting. This certificate prepares students for a community health paramedic credential.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all courses required within the program.

Admission Criteria: Current state Paramedic certification.

Program Prerequisites: None.
Required Courses: 8 Credits
PME291 Community Health Paramedicine .8

Restricted Electives: None.

CONTACT: Mr. G. Trainor, Program Director: (602) 285.7125

Critical Care Paramedicine Certificate of Completion - CCL 5003N<br>8 Credits<br>The Certificate of Completion (CCL) in Critical Care Paramedicine is designed to provide the knowledge, skills and ability to synthesize standard of care and expanded scope of practice with comprehensive assessment, diagnostic technology, patient advocacy, ethical and professional behaviors, to practice patient-centered evidence-based paramedicine in the clinical, out-of-hospital, and interfacility transport settings. This certificate prepares students for a critical care paramedic credential. Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all courses required within the program.

Admission Criteria: Current state Paramedic certification.
Program Prerequisites: None.
Required Courses: 8 Credits
PME292 Critical Care Paramedicine .8

Restricted Electives: None.

CONTACT: Ms. K. Deela, Program Director:
(602) 285.7324

## Dental Assisting <br> Associate in Applied Science - AAS 3055 <br> 60-60.5 Credits

The Associate in Applied Science (AAS) in Dental Assisting prepares students to work collaboratively in a dental setting or transfer to a healthcare related four-year program. Students will be able to assist the dental team in a broad scope of dental procedures, perform office management functions, and provide patient support. A Certificate of Completion (CCL) is also available.

Graduates are eligible to take the Dental Assisting National Board Certification Exams to earn the Certified Dental Assistant $(\mathrm{CDA} ®)$ credential. Additionally, students are prepared for the required Arizona Radiologic Proficiency Certificate (AZRC) and the Arizona Coronal Polishing Certificate (AZCP).

Dental assisting professionals meeting admissions guidelines may be eligible to participate in an Expanded Functions Dental Assisting (EFDA) program in Arizona.

This full-time Dental Assisting program is accredited by the Commission on Dental Accreditation of the American Dental Association (211 E. Chicago Ave., Suite 1900, Chicago, IL 60611-2637; (312) 4404653).

Program Notes: This is a full-time program and requires approximately 40 hours per week for classroom, clinical, and homework. Students must earn a grade of C or better for all courses within the program.

Admission Criteria: High school diploma or GED equivalency is required. Completion of Program Prerequisites with a C or better. Acknowledgement of ability to fully participate in classroom, laboratory, or clinical setting program activities. Formal application with unofficial transcripts and admission to the program is required. After acceptance into the program, the following are required: Arizona Department of Public Safety Level One Fingerprint Clearance Card.

## Background Check Requirements

Admission to an Allied Health program requires that students be in compliance with the Maricopa County Community College District Supplemental Background Check policy. Program applications will not be accepted without a copy of the Arizona Department of Public Safety Level One Fingerprint Clearance Card. Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy. Health and Immunity Declaration Form signed by a licensed healthcare provider. Submit to a drug screening and demonstrate negative results. Current CPR card for Healthcare Providers and maintain current status throughout the program. Full compliance with the Maricopa Community Colleges Allied Health Program Students Policies.

## Program Prerequisites: 0-17.5 Credits

The credit hour range is subject to change depending on the student's educational experiences. Program Prerequisites may be waived for students who have completed an Associate in Applied Science degree or higher degree in a health science discipline from a regionally accredited institution of higher education recognized by Maricopa Community College District and with permission of the Program Director.


Restricted Electives: None.
General Electives: 0-10 Credits
Select additional courses 100-level or higher to complete a minimum of 60 semester credits. Consult with the Program Director or an Academic Advisor.

General Education: 12-28 Credits
CORE: 6-18 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) OR Met by ENG101 or ENG107 in Program Prerequisites area. (0)........... 0-3
ENG102 First-Year Composition + (3) OR
ENG108 First-Year Composition for ESL + (3) ..................................................... 3

## Oral Communication:

Any approved general education course in the Oral Communication area (3) OR
Met by Oral Communication course in the Program Prerequisites area. (0)0-3

Recommend COM110 Interpersonal Communication or COM230 Small Group Communication.
Critical Reading:
CRE101
College Critical Reading and Critical Thinking + (3) OR
Equivalent as indicated by assessment (0) OR
Met by CRE101 or equivalent in Program Prerequisites area. (0) . . . 0-3

## Mathematics:

Any approved general education course from the Mathematics area3-6

Recommend the following for students seeking university transfer:
MAT140
MAT141
MAT142
College Mathematics + (5) OR
College Mathematics + (4) OR
College Mathematics + (3) OR
MAT145
College Mathematics with Review (5) OR
MAT146
College Mathematics with Review (6)3-6

DISTRIBUTION: 6-10 Credits

## Humanities, Arts and Design:

Any approved general education course from the Humanities, Arts and Design area 3
For students seeking university transfer, recommend selecting a course that meets both Humanities, Arts and Design [HU] designation and meets an Awareness area (Cultural Diversity [C] and/or Global Awareness [G]/Historical Awareness [H]).

## Social-Behavioral Sciences:

PSY101
SOC101
Introduction to Psychology (3) OR
Introduction to Sociology (3) 3

Natural Sciences:
Any approved general education course from the Natural Sciences area (4) OR
Met by BIO160, BIO201, BIO201XT, or BIO202 in Program Prerequisites area. (0) 0-4

CONTACT: Ms. K. Deela, Program Director:
(602) 285.7324

## Dental Assisting <br> Certificate of Completion - CCL 5483 <br> 28-45.5 Credits

The Certificate of Completion (CCL) in Dental Assisting prepares students to work collaboratively in a dental setting or transfer to a healthcare related four-year program. Students will be able to assist the dental team in a broad scope of dental procedures, perform office management functions, and provide patient support. An Associate in Applied Science (AAS) is also available. Students that meet the CCL requirements in the program may proceed to earn their AAS degree. Graduates are eligible to take the Dental Assisting National Board Certification Exams to earn the Certified Dental Assistant (CDA®) credential. Additionally, students are prepared for the required Arizona Radiologic Proficiency Certificate (AZRC) and the Arizona Coronal Polishing Certificate (AZCP).

Dental assisting professionals meeting admissions guidelines may be eligible to participate in an Expanded Functions Dental Assisting (EFDA) program in Arizona. This full-time Dental Assisting program is accredited by the Commission on Dental Accreditation of the American Dental Association (211 E. Chicago Ave., Suite 1900, Chicago, IL 60611- 2637; (312) 440-4653).

Program Notes: This is a full-time program and requires approximately 40 hours per week for classroom, clinical, and homework. Students must earn a grade of C or better for all courses within the program. + indicates course has prerequisites and/or corequisites.

Admission Criteria: High school diploma or GED equivalency is required. Completion of Program Prerequisites with a C or better. Acknowledgement of ability to fully participate in classroom, laboratory, or clinical setting program activities. Formal application with unofficial transcripts and admission to the program is required. After acceptance into the program, the following are required: Arizona Department of Public Safety Level One Fingerprint Clearance Card

## Background Check Requirements

Admission to an Allied Health program requires that students be in compliance with the Maricopa County Community College District Supplemental Background Check policy. Program applications will not be accepted without a copy of the Arizona Department of Public Safety Level One Fingerprint Clearance Card. Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy. Health and Immunity Declaration Form signed by a licensed healthcare provider. Submit to a drug screening and demonstrate negative results. Current CPR card for Healthcare Providers and maintain current status throughout the program.

## Program Prerequisites: 0-17.5 Credits

The credit hour range is subject to change depending on the student's educational experiences. Program Prerequisites may be waived for students who have completed an Associate in Applied Science degree or higher degree in a health science discipline from a regionally accredited institution of higher education recognized by Maricopa Community College District and with permission of the Program Director.
BIO160 Introduction to Human Anatomy and Physiology (4) OR
BIO201 Human Anatomy and Physiology + (4) OR
BIO201XT Human Anatomy and Physiology I (4) AND
BIO202
Human Anatomy and Physiology II (4)Any approved general education course in the Oral Communication area3
Recommend COM110 Interpersonal Communication or COM230 Small Group Communication.
CRE101 College Critical Reading and Critical Thinking + (3) OREquivalent as indicated by assessment0-3
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) .....  3
EMT101
Basic Life Support/Cardiopulmonary Resuscitation (CPR) for
Basic Life Support/Cardiopulmonary Resuscitation (CPR) for Health Care Providers (0.5) OR
Current approved CPR certification at the Health Care Provider level (0) ..... $0-0.5$
Required Courses: 28 Credits
DAE112 Dental Assisting I +. ..... 7
DAE124 Dental Radiography + .....  2
DAE131 Dental Radiography Laboratory + ..... 2
DAE140 Dental Issues Seminar + ..... 1
DAE156 Dental Assisting II + .....  7
DAE212 Dental Assisting III + ..... 2
DAE224 General Clinical Practice + .....  1
DAE225 Pediatric Clinical Practice + .....  1
DAE226 Periodontal Clinical Practice + .....  1
DAE227 Orthodontic Clinical Practice + ..... 1
DAE228 Oral and Maxillofacial Surgery Clinical Practice + ..... 1
DAE256 Dental Assisting IV +. ..... 2Restricted Electives: None.

CONTACT: Ms. R. Querry, Program Director:
(602) 285.7611

## Dental Hygiene

Associate in Applied Science - AAS 3831
96-115.5 Credits
Note: This program requires a G.P.A. of $\mathbf{3 . 2 5}$.
The Associate in Applied Science (AAS) in Dental Hygiene degree prepares students to become primary care oral health professionals. A licensed dental hygienist may provide education, assessment, diagnostic, preventive and therapeutic services, research, and administrative services that support overall health through the promotion of optimal oral health. Hygienists may be employed in general or specialty dental practice in private or public healthcare settings. The program also prepares students for university transfer.

The dental hygiene program offers a rigorous, intensive, science-based curriculum. Students will provide services in clinical settings and will develop a commitment to the community through offsite educational and enrichment experiences serving diverse populations. Successful students will develop and demonstrate critical thinking, as well as ethical and professional behaviors required by the field.

Applicants should possess hand-eye coordination, manual dexterity, attention to detail, and the ability to persevere through a rigorous academic and clinical full-time program workload. Students in an MCCCD Dental Hygiene program will be exposed to bloodborne pathogens and infectious diseases. The program strictly adheres to established policies and procedures regarding infection control as recommended by the Centers for Disease Control and Prevention, American Dental Association, the Organization for Safety and Asepsis Procedures, and the Occupational Safety and Health Administration.

The Commission on Dental Accreditation of the American Dental Association (211 E. Chicago Ave., Suite 1900, Chicago, IL 60611-2637; (312) 440-4653) grants accreditation to the Phoenix College, Rio Salado College, and Mesa Community College programs. The Commission is a specialized accrediting body recognized by the United States Department of Education. Graduates are eligible for board examinations and licensure in all fifty states.

Program Notes: Students must earn a grade of C or better in all courses in the program. Students must complete the Basic Science courses with a GPA of 3.5 or better and General Education courses with a GPA of 3.25 or better as indicated in the Program Prerequisites. Basic Science courses must have been completed within the last five years upon application submission or as determined by the Dental Health Professions Instructional Council. Students must earn a grade of $75 \%$ or better in the Required Courses area within the core program. Students should consult with an advisor prior to applying to the program.

For students pursuing a Concurrent Enrollment Program (CEP) or to complete an AGEC-A: MHL155 and PHI213 are recommended for the Humanities, Arts and Design area for a total of 6 credits in this area. COM225 with the [L] designation is recommended for the Oral Communication area. PSY101 and SOC101 are recommended for the Social-Behavioral Sciences area. MAT140 or MAT141 or MAT142, MAT145 or MAT146 or higher level is required for the Mathematics area. An additional course, MAT206 or PSY230 or PSY230WL, is required to meet the Computer/Statistics area.

Note: Total credits to obtain a Bachelor of Science degree in Dental Hygiene through NAU as part of the CEP program are 124-129. Some of the courses listed in the prerequisites area are for students pursuing the CEP, and thus are not counted as part of the AAS total program credits.

Admission Criteria: High school diploma or GED equivalency is required. Completion of program prerequisites. Program applications will not be accepted without a copy of an Arizona Department of Public Safety Level One Fingerprint Clearance Card. Acknowledgement of ability to fully participate in classroom, laboratory, or clinical setting program activities. Formal application and acceptance to the program is required.

After being placed in the program, the following are required: Admission to an Allied Health program requires that students be in compliance with the Maricopa County Community College District Supplemental Background Check policy. Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy. Complete and submit the required proof of immunity and health declaration form signed by a licensed health care provider. Submit to a drug screening and demonstrate negative results. Submit current CPR card for Health Care Provider and maintain current status throughout the program.

Program Prerequisites: 38-57.5 Credits
The credit hour range is subject to change depending on the student's educational experiences.

| BIO156 | Introductory Biology for Allied Health + (4) OR |
| :---: | :---: |
| BIO181 | General Biology (Majors) I + (4) OR |
|  | One (1) year of high school Biology.............................................. 0-4 |
| HCC/RES109 | CPR for Health Care Provider (0.5) OR |
|  | Current CPR certification at the health care provider |
|  | Professional rescuer level ..................................................... 0-0.5 |
| Students must complete the following Basic Science courses with a GPA of 3.50. |  |
| BIO201 | Human Anatomy and Physiology I + |
| BIO202 | Human Anatomy and Physiology II + |
| BIO205 | Microbiology + |
| CHM130 | Fundamental Chemistry + (3) AND |
| CHM130LL | Fundamental Chemistry Laboratory + (1)4 OR |
| CHM130AA | Fundamental Chemistry with Lab + (4) OR |
| CHM151 | General Chemistry I +(3) AND |
| CHM151LL | General Chemistry I Laboratory + (1) 4 OR |
| CHM151AA | General Chemistry I with Lab + (4) OR |
| CHM152 | General Chemistry II + (3) AND |
| CHM152LL | General Chemistry II Laboratory + (1) 4 OR |
| CHM152AA | General Chemistry II + (4) OR |
| CHM230 | Fundamental Organic Chemistry + (3) AND |
| CHM230LL | Fundamental Organic Chemistry Laboratory + (1) 4 OR |
| CHM230AA | Fundamental Organic Chemistry with Lab + (4) OR |
| CHM235 | General Organic Chemistry I + (3) AND |
| CHM235LL | General Organic Chemistry I Laboratory + (1) 4 OR |
| CHM235AA | General Organic Chemistry I with Lab + (4) OR |
| CHM236 | General Organic Chemistry IIA + (3) AND |
| CHM236LL | General Organic Chemistry IIA Laboratory + (1) 4 OR |
| CHM236AA | General Organic Chemistry IIA with Lab + (4) ................................... 4 |

Students who have completed CHM138 and CHM138LL prior to Fall 2019 have fulfilled the CHM

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
requirement for acceptance into the MCCCD Dental Hygiene program. CHM138 and CHM138LL completed Fall of 2019 or after, will no longer meet the MCCCD Dental Hygiene Application Admissions requirement as this class is being phased out. Please note that CHM130 is required for participation in the CEP program through NAU.

Students must complete the following General Education courses with a GPA of 3.25.
ENG101 First-Year Composition + (3) OR

ENG107 First-Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) OR
ENG108 First-Year Composition for ESL + (3)
$\begin{array}{ll}\text { COM100 } & \text { Introduction to Human Communication (3) OR } \\ \text { COM110 } & \text { Interpersonal Communication (3) OR } \\ \text { COM225 } & \text { Public Speaking + (3) OR } \\ \text { COM230 } & \text { Small Group Communication (3)............................................................ } 3\end{array}$
COM225 is recommended for students pursuing a CEP or to complete the AGEC-A to meet the Oral Communication and the Literacy [L] designation.

| MAT112 | Mathematical Concepts and Applications + (3) OR |
| :--- | :--- |
| MAT140 | College Mathematics (5) + OR |
| MAT141 | College Mathematics (4) + OR |
| MAT142 | College Mathematics (3) + OR |
| MAT145 | College Mathematics with Review (5) + OR <br> MAT146 |
|  | College Mathematics with Review (6) + OR <br> satisfactory completion of higher-level Mathematics course .............. 3-6 |

MAT140 or MAT141 or MAT142 or MAT145 or MAT146 or Higher course in the Mathematical Applications [MA] area is required for students pursuing a CEP or to complete the AGEC-A.

| MAT206 | Elements of Statistics + (3) OR |
| :--- | :--- |
| PSY230 | Introduction to Statistics + (3) OR |
| PSY230WL | Introduction to Statistics with Lab + (4) .............................................. 0-4 |

MAT206 or PSY230 or PSY230WL is required for students pursuing a CEP or baccalaureate degree to meet the [CS] designation.

Any SOC+++ meeting the Social-Behavioral Sciences [SB] designation .3

Any PSY+++ meeting the Social-Behavioral Sciences [SB] designation ................................................ 3
For students pursuing a CEP or a baccalaureate and selecting PSY230 or PSY230WL to meet the [CS] designation, complete PSY101 to meet the [SB] designation and to fulfill the prerequisite for PSY230 or PSY230WL.

CRE101 College Critical Reading and Critical Thinking + (3) OR Equivalent as indicated by assessment .
Students who are exempt from CRE101 must complete a course with an [L] designation if pursuing a CEP or to complete the AGEC-A.

Any approved general education course from the Humanities, Arts and Design area..... .3-6 MHL155 and PHI213 for a total of 6 credits are recommended for the Humanities, Arts and Design area for students pursuing a CEP or to complete the AGEC-A.
FYE101 Introduction to College, Career and Personal Success (1) OR
FYE103 Exploration of College, Career and Personal Success (3) ..... 1-3
Required Courses: 58 Credits
DHE110 Pharmacology + ..... 3
DHE112 Oral Pathology + ..... 3
DHE115 Emergency Medicine + .....  2
DHE117 Dental Radiography + ..... 2
DHE119 Head and Neck Anatomy +. ..... 3
DHE120 Pre-Clinical Dental Hygiene + ..... 6
DHE121 Dental Anatomy, Embryology and Histology + ..... 2
DHE125 Dental Radiography Laboratory + .....  1
DHE127 Prevention of Dental Disease + ..... 3
DHE132 Dental Hygiene Theory I +. ..... 3
DHE133 Dental Hygiene Clinic I +. ..... 3
DHE201 Dental Materials + ..... 2
DHE202 Dental Materials Laboratory + .....  1
DHE212 Dental Hygiene Theory II + ..... 2
DHE213 Dental Hygiene Clinic II + .....  5
DHE219 Practice Management + .....  2
DHE225 Periodontics + ..... 3
DHE227 Dental Anesthesia + ..... 2
DHE229 Community Oral Health + .....  3
DHE232 Dental Hygiene Theory III + .....  2
DHE233 Dental Hygiene Clinic III + .....  5
Restricted Electives: None.
General Electives: None.
General Education: 0 Credits
CORE: 0 Credits
First-Year Composition:
Met by (ENG101 or ENG107) and (ENG102 or ENG108) in the Program Prerequisites area. + ..... 0
Oral Communication:
Met by COM100 or COM110 or COM225 or COM230 in Program Prerequisites area. COM225 with the [L] Literacy tag is recommended for students pursuing a CEP or to complete the AGEC-A ..... 0
Critical Reading:
Met by CRE101 or equivalent as indicated by assessment in Program Prerequisites area .....  0
Mathematics:
Met by MAT112 if only completing the AAS or met by MAT140 or MAT141 or MAT142or MAT145 or MAT146 or Higher course in the Mathematical Applications [MA] area ifpursuing a CEP or an AGEC-A0
DISTRIBUTION: 0 Credits
Humanities, Arts and Design:
Met by any approved general education course from the Humanities, Arts and Design area in Program Prerequisites. MHL155 and PHI213 are recommended for the Humanities, Arts and Design area for students pursuing a CEP or to complete the AGEC-A.................................................... 0
Social-Behavioral Sciences:
Met by PSY+++ and SOC+++ in the Program Prerequisites area............................................... 0
Natural Sciences:
Met by BIO201 in the Program Prerequisites area ..................................................................... 0

CONTACT: Mr. O. Alcordo, Program Director:
(602) 285.7125

## Emergency Medical Technology Certificate of Completion - CCL 5643N 13 Credits

The Certificate of Completion (CCL) in Emergency Medical Technology Preparation curriculum provides the student with the necessary knowledge and skills in accordance with the National EMS Scope of Practice published by National Highway Traffic Safety Administration (NHTSA) and the Arizona Department of Health Services. Successful completion of the curriculum and upon licensure, the candidate can seek employment with ambulance service companies, first responder agencies, fire departments, and hospitals as an Emergency Medical Technician (EMT). Emphasis is on the fundamental principles and skills required to provide emergency medical care for the ill or injured. The primary focus of an EMT is to respond to, assess and triage emergent, urgent, and non- urgent requests for medical care, apply basic knowledge and skills necessary to provide patient care and medical transportation to/from an emergency or health care facility.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all courses within the program. EMT104 requires students to complete additional hours in a competency-based clinical, vehicular, and/or scenario-b a sed experience. Depending on the college, this may be completed through EMT/FSC104AB or program director-approved rotation.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 13 Credits
Students who have current validation in Basic Life Support (BLS) are required to receive credit by evaluation.
EMT101 Basic Life Support/Cardiopulmonary Resuscitation (CPR) for Health Care Providers (0.5) OR Current validation in Basic Life Support (BLS) Health Care Provider/Professional Rescuer (0) AND
Credit By Evaluation (0.5).................................................................... 0.5
EMT/FSC104AB Applied Practical Studies for Emergency Medical Technology + .......... 0.5
EMT104 Emergency Medical Technology + ........................................................ 10
EMT104LL Emergency Medical Technology Practicum +........................................... 2
Restricted Electives: None.

CONTACT: Mr. O. Alcordo, Program Director:
(602) 285.7125

## Emergency Medical Technology Comprehensive Certificate of Completion - CCL 5058 16-17 Credits

The Certificate of Completion (CCL) in Emergency Medical Technology Comprehensive curriculum provides the student with the necessary knowledge and skills in accordance with the National EMS Scope of Practice published by National Highway Traffic Safety Administration (NHTSA) and the Arizona Department of Health Services. This certificate provides students with the expanded knowledge and skills for pre-hospital settings. Successful completion of the curriculum and upon licensure, the candidate can seek employment with ambulance service companies, first responder agencies, fire departments, and hospitals as an Emergency Medical Technician (EMT). Emphasis is on the fundamental principles and skills required to provide emergency medical care for the ill or injured. The primary focus of an EMT is to respond to, assess and triage emergent, urgent, and non-urgent requests for medical care, apply basic knowledge and skills necessary to provide patient care and medical transportation to/from an emergency or health care facility.

Program Notes: Students must earn a grade of C or better in all courses within the program. EMT104 requires students to complete additional hours in a competency-based clinical, vehicular, and/or scenario-based experience. Depending on the college, this may be completed through EMT/FSC104AB or program director-approved rotation.

## Admission Criteria: None.

## Program Prerequisites: None.

Required Courses: 13 Credits
Students who have current validation in Basic Life Support (BLS) are required to receive credit by evaluation.

EMT101 | Basic Life Support/Cardiopulmonary Resuscitation (CPR) for |
| :--- |
| $\quad$ Health Care Providers (0.5) OR |
|  |
| Current validation in Basic Life Support (BLS) Health Care |
|  |
| $\quad$ Provider/Professional Rescuer (0) AND |
| Credit By Evaluation (0.5).................................................................. 0.5 |

EMT/FSC104AB Applied Practical Studies for Emergency Medical Technology + .......... 0.5
EMT104 Emergency Medical Technology + ........................................................ 10
EMT104LL Emergency Medical Technology Practicum +........................................... 2
Restricted Electives: 3-4 Credits
AJS/EMT/FSC258 Victimology and Crisis Management in Public Safety ............................... 3
BIO156 Introductory Biology for Allied Health +................................................. 4
HCC145 Medical Terminology for Health Care Professionals ....................................................... 3
PME190 Introduction to ECG Rhythm Analysis and Interpretation for
EMS Professionals.............................................................................. 3
PME191 Introduction to Pharmacology for EMS Professionals............................... 3
SWU258 Victimology and Crisis, a Social Services Perspective............................... 3

CONTACT: Dr. T. Thomas-Brogan, Program Director:
(602) 285.7149
dr.terinicka.brogan@phoenixcollege.edu

## Health Information: Long Term Care Settings <br> Certificate of Completion - CCL 5324 <br> 30-37 Credits

The Certificate of Completion (CCL) in Health Information: Long Term Care Settings program prepares individuals for entry-level health information processing positions in long term, home health, and hospice facilities. Students will perform such duties as collecting, analyzing, assembling, releasing, coding, and reporting patient information in both paper and electronic record systems.

Program Notes: Students must earn a grade of C or better in all courses required within the program. The following courses must be completed within five (5) years of the Required Course(s) for which they are Prerequisite requirements: BIO156 or BIO156XT, BIO181 or BIO181XT, BIO201 or BIO201XT, BPC110, and HCC145.

Students must be willing to undergo a background check performed by the MCCCD approved vendor. (Students who are unsure of their background status may take a preliminary background check at their own expense before entering the program, results not sent to the college.)

Admission Criteria: Current English assessment reflecting eligibility for ENG101, ENG107, or permission of Program Director. A grade of C or better in RDG100, or RDG100LL, or higher, or eligibility for CRE101. One year of high school or one semester of college-level biology and chemistry is strongly recommended. High school diploma, or GED, or equivalent. Ability to fully participate in classroom, laboratory settings, if applicable. Formal application and admission to the Program are required. Applications can be obtained from advisement or College website.

## Program Prerequisites: None.

| Required | Credits |
| :---: | :---: |
| BIO201 | Human Anatomy and Physiology I + (4) OR |
| BIO201XT | Human Anatomy and Physiology I + (4) ........................................... 4 |
| BIO202 | Human Anatomy and Physiology II +................................................ 4 |
| BPC110 | Computer Usage and Applications |
| HCC145 | Medical Terminology for Health Care Professionals............................. 3 |
| HIM103 | Long Term Care Delivery + ............................................................ 4 |
| HIM106 | Legal and Ethical Aspects of Health Information Management +........... 3 |
| HIM183 | Diagnostic Coding in Long Term Care Settings + ...................................... 4 |
| HIM200 | Human Pathophysiology and Pharmacology for <br> Health Information Management (HIM) Professionals + $\qquad$ |
| HIM205 | Managing Health Information in Long Term Care Settings + ................. 2 |

## Restricted Electives: 0-7 Credits

Students may need to complete the following coursework for entry into BIO201++ if they have not completed one year of high school biology and are not eligible for CRE101.

| Permission of Program Director (0) OR |  |
| :--- | :--- |
| BIO156 | Introductory Biology for Allied Health + (4) OR |
| BIO156XT | Introductory Biology for Allied Health + (4) OR |
| BIO181 | General Biology (Majors) I + (4) OR <br> GIO181XT |
| General Biology (Majors) I + (4) OR <br> One year of high school Biology (0)...................................................0-4 |  |
| RDG100 | Successful College Reading (3) OR <br> RDG100LL |
| Disciplinary Literacy Lab (1) OR <br> Eligibility for CRE101 College Critical Reading and Critical Thinking (0) .....0-3 |  |

CONTACT: Dr. T. Thomas-Brogan, Program Director:
(602) 285.7149
dr.terinicka.brogan@phoenixcollege.edu

## Health Information Technology Associate in Applied Science - AAS 3324 <br> 72-77 Credits

The Associate in Applied Science (AAS) in Health Information Technology prepares students to meet the increasing demands for formally trained health information management professionals in healthcare agencies such as clinics, hospitals, long-term care facilities, home health agencies, state health departments, and other organizations. Health information technicians are trained in the domains of health informatics, revenue cycle management, data analytics, and information governance. Certificates of Completion (CCL) in Medical Billing and Coding: Physician-Based, Medical Coding: HospitalBased, or Health Information: Long Term Care Settings are also available.

Graduates are eligible to apply to take the examination of the American Health Information Management Association for the Registered Health Information Technician (RHIT) designation.

Program Notes: Students must earn a grade of C or better in all courses required within the program. Students in this program participate in mandatory professional practice placements in health care settings. Students must be willing to undergo a background check performed by the MCCCD approved vendor. (Students who are unsure of their background status may take a preliminary background check at their own expense before entering the program, results of which will not be sent to the college.)

The following Prerequisite courses must be completed within five (5) years of the Required Course(s) for which they are requisite requirements: BIO201, BIO202, BPC110, HCC145, HCC164, HCC204, and HIM200.

Admission Criteria: High school diploma, OR GED equivalent. Formal application and admission to the Health Information Technology program is required. Ability to participate fully in classroom, laboratory settings, if applicable. Applications available from advisement or the College website.

## Background Check Requirements

Program applications will not be accepted without a copy of the Arizona Department of Public Safety Level One Fingerprint Clearance Card. Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy.

## Program Prerequisites: None.

Required Courses: 43-45 Credits
$\begin{array}{ll}\text { BIO156 } & \text { Introductory Biology for Allied Health + (4) OR } \\ \text { BIO181 } & \text { General Biology (Majors) I + (4)............................................................ } 4\end{array}$
BIO201 Human Anatomy and Physiology I +........................................................ 4
BIO202 Human Anatomy and Physiology II +...................................................... 4
BPC110 Computer Usage and Applications............................................................ 3
FYE101 Introduction to College, Career and Personal Success (1) OR
FYE103 Exploration of College, Career and Personal Success (3) 1-3

HCC145 Medical Terminology for Health Care Professionals.................................. 3

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
HIM101 Introduction to Health Information Management + ..... 3
HIM106 Legal and Ethical Aspects of Health Information Management + ..... 3
HIM160 Health Data and Content + .....  2
HIM180 Introduction to Medical Billing and Reimbursement + ..... 2
HIM200 Human Pathophysiology and Pharmacology for Health Information Management (HIM) Professionals + ..... 3
HIM203 Healthcare Statistics and Data Analytics + .....  3
HIM207 Health Information Organizational Resource Management + ..... 3
HIM208 ICD-CM Diagnostic Coding + .....  2
HIM219 Health Information Management Systems + .....  3
Restricted Electives: 11 Credits
Students must select one (1) of the following specializations:
Specialization 1: Health Data Management (11 credits) ..... 3
HIM209 Procedural Coding Systems for Non-Coders + ..... 3
HIM225 Health Data Analytics + .....  3
HIM231 Health Data Management Seminar + ..... 1
HIM232 Health Data Management Professional Practice + ..... 1
Specialization 2: Revenue Cycle Management (11 credits)
HIM210 ICD-PCS Coding and ICD Applications + ..... 2
HIM211 Advanced Applications of Coding and Reimbursement + .....  4
HIM213 CPT and HCPCS Coding + ..... 3
HIM233 Revenue Cycle Management Seminar + .....  1
HIM234 Revenue Cycle Data Management Professional Practice + ..... 1
General Education Requirements: 18-21 CreditsCORE: 12-15 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) OR
ENG111 Technical and Professional Writing + (3). ..... 6
Oral Communication:
COM100 Introduction to Human Communication (3) ORCOM110 Interpersonal Communication (3) OR
COM225 Public Speaking + (3) ORCOM230 Small Group Communication (3)3
Critical Reading: ..... CRE101
College Critical Reading and Critical Thinking + (3) OR Equivalent as indicated by assessment (0) ..... 0-3
Mathematics:
MAT112 Mathematical Concepts and Applications + ..... 3

DISTRIBUTION: 6 Credits
Humanities, Arts and Design:
Any approved general education course from the Humanities, Arts and Design area .................. 3
Social-Behavioral Sciences:
Any approved general education course from the Social-Behavioral Sciences area ..................... 3
Natural Sciences:
Met by BIO156+ or BIO181+ in the Required Courses area

CONTACT: Ms. R. Helminski, Program Director:
(602) 285.7295 or
marty.minton@phoenixcollege.edu

## Histologic Technology <br> Associate in Applied Science - AAS 3021 <br> 61-72 Credits

The Associate in Applied Science (AAS) in Histologic Technology program prepares students to provide clinical support to pathologists and researchers through application of technical expertise in processing body tissues for microscopic examination, frozen section assistance, embedding techniques, microtomy, and special staining techniques. Students in the Histologic Technology program will be in contact with potentially infectious blood, tissues, and body fluids. A Certificate of Completion (CCL) in Histologic Technology is also available.

Program Notes: Students must earn a grade of C or better in all courses required within the program. Completion of Anatomy and Physiology, Biology, Chemistry and Mathematics courses within the last eight (8) years is required.

Admission Criteria: High school diploma or GED. Completion of Program Prerequisites. Proof of current immunization: Measles, Mumps, and Rubella (MMR), tuberculosis skin test (TB), varicella, tetanus, diphtheria, and Hepatitis B vaccine (HEB) and Seasonal Flu vaccine. Submit current CPR card for Health Care Provider and maintain current status throughout the practicum(s). Complete and submit the health declaration form signed by a licensed health care provider. Submit to a drug screening and demonstrate negative results. Ability to fully participate in classroom, laboratory, or clinical setting program activities. A formal application and admission or readmission to the Histologic Technology program is required. Application to the Histologic Technology program can be obtained from a Health Professions Advisor, the Program Director, or via the Phoenix College Health Professions, Fitness and Wellness Web site.

## Background Check Requirements

Admission to an Allied Health program requires that students be in compliance with the Maricopa County Community College District Supplemental Background Check policy. Program applications will not be accepted without a copy of an Arizona Department of Public Safety Level One Fingerprint Clearance Card. Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy.

Program Prerequisites: 34-43 Credits
The credit hour range is subject to change depending on the student's educational experience.
OPTION 1: 34-39 Credits
Option 1 is available for the student who has two or more years of documented work experience in a hospital or reference laboratory.

General Education: 22-27 Credits
CORE: 12-17 Credits

## First-Year Composition:

Any approved general education courses in the First-Year Composition area. +.......................... 6 Oral Communication:
Any approved general education course in the Oral Communication area. + .3
Critical Reading:
CRE101 College Critical Reading and Critical Thinking + (3) OR
Equivalent as indicated by assessment (0)0-3
Mathematics:
MAT140 College Mathematics + (5) OR
MAT141 College Mathematics + (4) OR
MAT142 College Mathematics + (3) OR
Satisfactory completion of a higher-level mathematics course
MAT courses must be completed within eight (8) years prior to admission or readmission to the Histologic Program.

DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Any approved general education course in the Humanities, Arts and Design area........................ 3
Natural Sciences:
BIO156 Introductory Biology for Allied Health + (4) OR
BIO181
General Biology (Majors) I + (4) OR
Equivalent course
Social-Behavioral Sciences:
Any approved general education course in the Social-Behavioral Sciences area.
Students must have completed the following BIO and CHM courses within eight (8) years prior to admission or readmission to the Histologic Program:

| BIO201 | Human Anatomy and Physiology I + (4) AND |
| :--- | :--- |
| BIO202 | Human Anatomy and Physiology II + (4) OR <br> Equivalent courses ........................................................................... 8 |
| CHM130 | Fundamental Chemistry + (3) AND |
| CHM130LL | Fundamental Chemistry Laboratory + (1) OR <br> Equivalent courses OR |
|  | Completion of higher-level Chemistry courses............................ 4 |

OR
OPTION 2: 38-43 Credits

HCC130
HCC130AA
HCC130AB
HCC130AC
HCC130AD
HCC130AE
HCC130AF
HCC145AA Medical Terminology for Health Care Professionals I............................................. 1
General Education: 22-27 Credits
CORE: 12-17 Credits
First-Year Composition:
Any approved general education courses in the First-Year Composition area. + .. 6

## Oral Communication:

Any approved general education course in the Oral Communication area. + $\qquad$3

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
Critical Reading:CRE101 College Critical Reading and Critical Thinking + (3) OREquivalent as indicated by assessment (0)0-3
Mathematics:
MAT140 College Mathematics + (5) OR
MAT141 College Mathematics + (4) OR
MAT142 College Mathematics + (3) OR
Satisfactory completion of a higher-level mathematics course ..... 3-5
MAT courses must be completed within eight (8) years prior to admission or readmission to theHistologic Program.
DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Any approved general education course in the Humanities, Arts and Design area ..... 3
Natural Sciences:
BIO156 Introductory Biology for Allied Health + (4) ORBIO181General Biology (Majors) I + (4) OREquivalent course4
Social-Behavioral Sciences:
Any approved general education course in the Social-Behavioral Sciences area ..... 3
Students must have completed the following BIO and CHM courses within eight (8) years prior to admission or readmission to the Histologic Program:
BIO202 Human Anatomy and Physiology II + (4) OR Equivalent courses ..... 8
CHM130 Fundamental Chemistry + (3) AND
CHM130LL Fundamental Chemistry Laboratory + (1) OR Equivalent courses OR
Completion of higher-level Chemistry courses ..... 4
Required Courses: 25-27 Credits
FYE101 Introduction to College, Career and Personal Success (1) OR
FYE103 Exploration of College, Career and Personal Success (3) ..... 1-3
HST180 Overview of Histology (Anatomic) Laboratory + ..... 2
HST181 Chemistry of Fixation + .....  3
HST182 Microtomy + ..... 5
HST183 Practicum: Chemistry of Fixation + ..... 1
HST184 Practicum: Microtomy +. .....  1
HST185 Cellular Biological Staining + ..... 5
HST186 Cellular Biological and Immunohistochemical Staining + . .....  5
HST187 Practicum: Cellular Biological Staining + ..... 1
HST188 Practicum: Cellular Biological and Immunohistochemical Staining + .....  1
Restricted Electives: None

General Electives: 2 Credits
Select additional courses 100 level or higher to complete the minimum credits required for this degree. .............. 2

General Education Requirements: 0 Credits
CORE: 0 Credits
First-Year Composition:
Met by any approved general education courses from the First-Year Composition courses in the Program Prerequisites area.0

## Oral Communication:

Met by any approved general education course from the Oral Communication courses in the Program Prerequisites area.
Critical Reading:
Met by any approved general education course from the Critical Reading area OR Equivalent as indicated by assessment in the Program Prerequisites area.0

## Mathematics:

Met by MAT140, MAT141, or MAT142 or Satisfactory completion of a higher-level mathematics course in the Program Prerequisites area

DISTRIBUTION: 0 Credits
Humanities, Arts and Design:
Met by any approved general education course from the Humanities, Arts and Design in the Program Prerequisites area. 0

Social-Behavioral Sciences:
Met by any approved general education course from the Social- Behavioral Sciences in the Program Prerequisites area0

## Natural Sciences:

Met by BIO156 or BIO181 or Equivalent Biology course in the Program Prerequisites area . 0

CONTACT: Ms. R. Helminski, Program Director:
(602) 285.7295 or
marty.minton@phoenixcollege.edu

## Histologic Technology <br> Certificate of Completion - CCL 5195 <br> 46-51 Credits

The Certificate of Completion (CCL) in Histologic Technology program prepares students to provide clinical support to pathologists and researchers through application of technical expertise in processing body tissues for microscopic examination, frozen section assistance, embedding techniques, microtomy, and special staining techniques. Students in the Histologic Technology program will be in contact with potentially infectious blood, tissues, and body fluids. An Associate in Applied Science (AAS) in Histologic Technology is also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program. Completion of Anatomy and Physiology, Biology, Chemistry and Mathematics courses within the last eight (8) years is required.

Admission Criteria: High school diploma or GED. Completion of an Associate's degree or higher in a health science discipline from a regionally accredited institution of higher education recognized by the Maricopa County Community College District. Completion of Program Prerequisites. Proof of current immunization: Measles, Mumps, and Rubella (MMR), tuberculosis skin test (TB), varicella, tetanus, diphtheria, Hepatitis B vaccine (HEB), and Seasonal Flu vaccine. Submit current CPR card for Health Care Provider and maintain current status throughout the practicum(s). Complete and submit the health declaration form signed by a licensed health care provider. Submit to a drug screening and demonstrate negative results. Ability to fully participate in classroom, laboratory, or clinical setting program activities. A formal application and admission or readmission to the Histologic Technology program is required. Application to the Histologic Technology program can be obtained from a Health Professions Advisor, the Program Director, or via the Phoenix College Health Professions, Fitness and Wellness Web site.

## Background Check Requirements

Admission to an Allied Health program requires that students be in compliance with the Maricopa County Community College District Supplemental Background Check policy. Program applications will not be accepted without a copy of an Arizona Department of Public Safety Level One Fingerprint Clearance Card. Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy.

## Program Prerequisites: 22-27 Credits

The credit hour range is subject to change depending on the student's educational experience.
OPTION 1: 22-24 Credits
Option 1 is available for the student who has two or more years of documented work experience in a hospital or reference laboratory.

Any approved general education course in the Oral Communication area + .3

| MAT140 | College Mathematics + (5) OR |
| :--- | :--- |
| MAT141 | College Mathematics + (4) OR |
| MAT142 | College Mathematics + (3) OR |

Satisfactory completion of a higher-level mathematics course...................................................3-5
MAT courses must be completed within eight (8) years prior to admission or readmission to the Histologic Program.

| BIO156 | Introductory Biology for Allied Health + (4) OR |
| :--- | :--- |
| BIO181 | General Biology (Majors) I + (4) OR |
|  | Equivalent course.................................................................................. 4 |

Students must have completed the following BIO and CHM courses within eight (8) years prior to admission or readmission to the Histologic Program:

| BIO201 | Human Anatomy and Physiology I + (4) AND |
| :--- | :--- |
| BIO202 | Human Anatomy and Physiology II + (4) OR <br> Equivalent courses .................................................................... 8 |
| CHM130 | Fundamental Chemistry + (3) AND |
| CHM130LL | Fundamental Chemistry Laboratory + (1) OR <br> Equivalent courses OR <br> Completion of higher-level Chemistry courses.................................... 4 |

OR
OPTION 2: 25-27 Credits
Any approved general education course in the Oral Communication area +3

| MAT140 | College Mathematics + (5) OR |
| :--- | :--- |
| MAT141 | College Mathematics + (4) OR |
| MAT142 | College Mathematics + (3) OR |

Satisfactory completion of a higher-level mathematics course.. 3-5
MAT courses must be completed within eight (8) years prior to admission or readmission to the Histologic Program.

Any approved general education course in the Humanities, Arts and Design area.

| BIO156 | Introductory Biology for Allied Health + (4) OR |
| :--- | :--- |
| BIO181 | General Biology (Majors) I + (4) OR |
|  | Equivalent course................................................................................... 4 |

Students must have completed the following BIO and CHM courses within eight (8) years prior to admission or readmission to the Histologic Program:

Required Courses: 24 Credits
HST180
Overview of Histology (Anatomic) Laboratory +2
HST181 Chemistry of Fixation + .......................................................................... 3
HST182
HST183
HST184
HST185
HST186
HST187
HST188

Microtomy +......................................................................................... 5
Practicum: Chemistry of Fixation +.......................................................... 1
Practicum: Microtomy +........................................................................... 1
Cellular Biological Staining + .................................................................. 5
Cellular Biological and Immunohistochemical Staining +......................... 5
Practicum: Cellular Biological Staining +................................................ 1
Practicum: Cellular Biological and Immunohistochemical Staining + ...... 1

Restricted Electives: None

General Electives: None

CONTACT: Ms. R. Helminski, Program Director:
(602) 285.7295 or
marty.minton@phoenixcollege.edu

## Laboratory Assisting <br> Certificate of Completion - CCL 5134N <br> 5-9 Credits

The Certificate of Completion (CCL) in Laboratory Assisting program provides education and training for employment in various laboratories. Laboratory Assistants perform specimen processing, inventory management, conduct quality control and quality assurance activities, perform point-of-care testing, and use computers to assist in testing and document laboratory activities. Students in the Laboratory Assisting Program will be in contact with potentially infectious blood, tissues, and body fluids. This program contains the courses to satisfy the requirements for the Certificate of Completion (CCL) in Phlebotomy, if applicable.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program. + indicates course has prerequisites and/or corequisites.

Admission Criteria: High school diploma or GED. Ability to participate fully in classroom, laboratory, or clinical setting program activities.

Formal application and admission to the program are required. Obtain an Application from the Program Director, a Health Professional Academic Advisor, or the Phoenix College Web site.

Program Prerequisites: None.
Required Courses: 5-9 Credits

| LBA155 | Laboratory Assisting: Principles and Procedures + .................................. 5 |
| :--- | :--- |
| PLB109 | Phlebotomy: Basic Skills + (2) AND |
| PLB111 | Specimen Processing and Advanced Techniques <br>  <br> in Phlebotomy Procedures + (2) OR |
|  | Verification of two years of employment as a clinical lab assistant, <br> specimen processer, or phlebotomist (0)................................. 0-4 |

Restricted Electives: None.

CONTACT: Ms. N. Albert, Program Director:
(602) 285.7295 or
marty.minton@phoenixcollege.edu

## Massage Therapy <br> Associate in Applied Science - AAS 3144 <br> 61-71 Credits

The Associate in Applied Science (AAS) in Massage Therapy program is designed to provide students with the foundational and advanced technical skills to meet State of Arizona licensure qualifications and is designed to prepare students for employment as massage professionals. The field of massage therapy is a holistic profession focused on helping people improve their physical and emotional well-being. Partnering with instructors and fellow students in a hands-on learning environment, students will gain a deep understanding of massage therapy integrating classic techniques including Swedish, deep tissue, and therapeutic. Students will have opportunities in onsite clinical and classroom settings working with a variety of individuals. Upon completion of this program students will be prepared to work in a range of settings including private practice, physical therapy clinics, chiropractic offices, corporate/franchised spas, sports industry, and destination resorts.

Program Notes: Students must earn a grade of C or better for all courses in the Program. Students must attend an orientation prior to applying to the program and be advised by the Program Director. A special application must be completed to be officially accepted in the program. Contact the Program Director or Advisement to obtain the Massage Therapy Program packet.

Admission Criteria: High school diploma or GED. Proof of current immunization: Measles, Mumps, and Rubella (MMR), tuberculosis skin test (TB), varicella, tetanus, diphtheria, and Hepatitis B vaccine (HEB). Have the ability to fully participate in classroom, laboratory, or clinical setting program activities. Submit current CPR card for Health Care Provider and maintain current status throughout the practicum(s). Complete and submit the health declaration form signed by a licensed health care provider. Submit to a drug screening and demonstrate negative results. Successfully complete an interview process.

Formal application and admission to the program are required.

## Background Check Requirements

Admission to an Allied Health program requires that students be in compliance with the Maricopa County Community College District Supplemental Background Check policy. Program applications will not be accepted without a copy of an Arizona Department of Public Safety Level One Fingerprint Clearance Card. Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy.

Program Prerequisites: None.

## Required Courses: 33-39 Credits

FYE101 Introduction to College, Career and Personal Success (1) OR
FYE103 Exploration of College, Career and Personal Success (3) 1-3

MGT253 Owning and Operating a Small Business (3) OR
WED204 Establishing a Massage Practice (3).
3
WED230 Therapeutic Massage Practices I + ..... 6
WED231 Therapeutic Massage Practices II + ..... 6
WED 232 Therapeutic Massage Practices III + ..... 6
WED250AA Clinical Practicum: Part I + (1.5) AND
WED250AB Clinical Practicum: Part II + (1.5) ..... 3Students must also complete one of the following specializations.
Specialization 1: 12 Credits
BIO160 Introduction to Human Anatomy and Physiology ..... 4
HCC130 Fundamentals in Health Care Delivery ..... 3
HCC145AA Medical Terminology for Health Care Professionals I ..... 1
WED165 Overview of Massage Therapy .....
WED215 Self-Care for Health Care Professionals ..... 2
OR
Specialization 2: 8 Credits
Option 2 is for students who have completed an Associate in Applied Science degree or higher degree ina health science discipline from a regionally accredited institution of higher education recognized byThe Maricopa Community Colleges.
BIO160 Introduction to Human Anatomy and Physiology ..... 4
WED165 Overview of Massage Therapy ..... 2
WED215 Self-Care for Health Care Providers ..... 2
Restricted Electives: 8-10 CreditsSelect courses 100-level or higher to complete a minimum of 60 semester credits but no more than atotal of 67 semester credits.
WED+++++ Any WED Wellness Education course(s) approved by the Program Director except courses already used to satisfy Required Courses and Restricted Electives areas ..... 1-4
FOCUS AREA: MASSAGE TECHNIQUES
WED120 Massage Therapy: Anatomy Refresher - Upper Body .....  1
WED145 Reflexology ..... 1
WED210 Sports Massage + .....  2
WED220 Gentle Touch for Individuals Living with Cancer ..... 2
WED297AA Special Topics: Therapeutic Massage .....  1
WED297AB Special Topics: Therapeutic Massage .....  2
WED297AC Special Topics: Therapeutic Massage .....  3
FOCUS AREA: ALTERNATIVE AND COMPLEMENTARY METHODS
WED125 Reiki: Healing and Symbols ..... 2
WED151 Introduction to Alternative Medicine ..... 3
WED162 Meditation and Wellness ..... 1
WED172 Overview of Herbal Remedies ..... 1
WED176 Flower Essences ..... 1
WED182 Health Conditions and Popular Herbs ..... 2
WED183 Introduction to Ayurvedic Principles ..... 2
WED218 Aromatherapy ..... 1
WED225 Reiki: Master Level and Teacher Training + ..... 2
FOCUS AREA: MIND-BODY ACTIVITIES
PED101JU Judo ..... 1
PED101PS Pilates ..... 1
PED102PS Pilates - Intermediate ..... 1
PED103PS Pilates (0.5) (May be repeated) ..... 1
PED101TC Tai Chi ..... 1
PED102TC Tai Chi - Intermediate ..... 1
PED103TC Tai Chi (0.5) (May be repeated) ..... 1
PED201TC Tai Chi - Advanced .....  1
PED101YO Yoga ..... 1
PED102YO Yoga - Intermediate ..... 1
PED103YO Yoga (0.5) (May be repeated) ..... 1
PED201YO Yoga - Advanced .....  .1
FOCUS AREA: HEALTH \& WELLNESS
FON241 Principles of Human Nutrition ..... 3
HES100 Healthful Living ..... 3
SPT271 Sports Medicine Foundations .....  3
REC120 Leisure and the Quality of Life ..... 3
General Education: 18-24 Credits
CORE: 12-18 Credits

## First-Year Composition:

| ENG101 | First-Year Composition + (3) OR |
| :---: | :---: |
| ENG107 | First-Year Composition for ESL + (3) AND |
| ENG102 | First-Year Composition + (3) OR |
| ENG108 | First-Year Composition for ESL + (3) ........................................ 6 |
| Oral Communication: |  |
| COM100 | Introduction to Human Communication (3) OR |
| COM110 | Interpersonal Communication (3) OR |
| COM225 | Public Speaking + (3) OR |
| COM230 | Small Group Communication (3)..................................................... 3 |
| Critical Reading: |  |
| CRE101 | College Critical Reading and Critical Thinking + (3) OR <br> Equivalent as indicated by assessment $\qquad$ 0-3 |
| Mathematics: |  |
| MAT140 | College Mathematics + (5) OR |
| MAT141 | College Mathematics + (4) OR |
| MAT142 | College Mathematics + (3) OR |
| MAT145 | College Mathematics with Review (5) OR |
| MAT146 | College Mathematics with Review (6) OR |
|  | Equivalent or higher-level mathematics course in the |
|  | Mathematical Applications [MA] area....................................... 3-6 |

DISTRIBUTION: 6 Credits
Humanities, Arts and Design:
Any approved general education course from the Humanities, Arts and Design area .................. 3
Social-Behavioral Sciences:
REC120
PSY101
Leisure and the Quality of Life (3) OR
Introduction to Psychology (3) .. 3
Natural Sciences:
Met by BIO160 in Required Courses area.

CONTACT: Ms. N. Albert, Program Director:
(602) 285.7295 or
marty.minton@phoenixcollege.edu

## Massage Therapy <br> Certificate of Completion - CCL 5144 <br> 36-40 Credits

The Certificate of Completion (CCL) in Massage Therapy program is designed to provide students with the foundational and advanced technical skills to meet State of Arizona licensure qualifications and is designed to prepare students for employment as massage professionals. The field of massage therapy is a holistic profession focused on helping people improve their physical and emotional well-being. Partnering with instructors and fellow students in a hands-on learning environment, students will gain a deep understanding of massage therapy integrating classic techniques including Swedish, deep tissue, and therapeutic. Students will have opportunities in onsite clinical and classroom settings working with a variety of individuals. Upon completion of this program students will be prepared to work in a range of settings including private practice, physical therapy clinics, chiropractic offices, corporate/franchised spas, sports industry, and destination resorts. Credits earned in the CCL directly apply to the Associate in Applied Science (AAS) in Massage Therapy degree.

Program Notes: Students must earn a grade of C or better for all courses required within the program. Students must attend an orientation prior to applying to the program and be advised by the Program Director. A special application must be completed to be officially accepted in the program. Contact the Program Director or Advisement to obtain the Massage Therapy Program packet.

GateWay Community College also offers a clock-hour based Massage Therapy certificate: www.gatewaycc.edu/massage-therapy

Admission Criteria: High school diploma or GED. Proof of current immunization: Measles, Mumps, and Rubella (MMR), tuberculosis skin test (TB), varicella, tetanus, diphtheria, and Hepatitis B vaccine (HEB). Successful completion of interview process. Have the ability to fully participate in classroom, laboratory, or clinical setting program activities. Submit current CPR card for Health Care Provider and maintain current status throughout the practicum(s). Complete and submit the health declaration form signed by a licensed health care provider. Submit to a drug screening and demonstrate negative results. Formal application and admission to the program are required.

## Background Check Requirements

Admission to an Allied Health program requires that students be in compliance with the Maricopa County Community College District Supplemental Background Check policy. Program applications will not be accepted without a copy of an Arizona Department of Public Safety Level One Fingerprint Clearance Card. Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy.

## Program Prerequisites: None.

Required Courses: 32-36 Credits
MGT253 Owning and Operating a Small Business (3) OR
WED204 Establishing a Massage Practice (3)......................................................... 3
WED230 Therapeutic Massage Practices I +........................................................... 6
WED231 Therapeutic Massage Practices II + ......................................................... 6

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
WED232 Therapeutic Massage Practices III + ..... 6
WED250AA Clinical Practicum: Part I + (1.5) AND
WED250AB Clinical Practicum: Part II + (1.5) ..... 3
Students must also complete one of the following Options.
Specialization 1: 12 Credits
BIO160 Introduction to Human Anatomy and Physiology ..... 4
HCC130 Fundamentals in Health Care Delivery ..... 3
HCC145AA Medical Terminology for Health Care Professionals I ..... 1
WED165 Overview of Massage Therapy ..... 2
WED215 Self-Care for Health Care Professionals .....  2
OR
Specialization 2: 8 CreditsOption 2 is for students who have completed an Associate in Applied Science degree or higher degree ina health science discipline from a regionally accredited institution of higher education recognized byThe Maricopa Community Colleges.
BIO160 Introduction to Human Anatomy and Physiology .....  4
WED165 Overview of Massage Therapy ..... 2
WED215 Self-Care for Health Care Providers ..... 2
Restricted Electives: 4 CreditsStudents must select courses from those listed below for a total of four (4) credits.
WED+++++ Any WED Wellness Education course(s) approved by the Program Director except courses already used to satisfy Required Courses and Restricted Electives areas ..... 1-4
FOCUS AREA: MASSAGE TECHNIQUES
WED120 Massage Therapy: Anatomy Refresher - Upper Body ..... 1
WED145 Reflexology ..... 1
WED210 Sports Massage + .....  2
WED220 Gentle Touch for Individuals Living with Cancer ..... 2
WED297AA Special Topics: Therapeutic Massage .....  1
WED297AB Special Topics: Therapeutic Massage .....  2
WED297AC Special Topics: Therapeutic Massage ..... 3
FOCUS AREA: ALTERNATIVE AND COMPLEMENTARY METHODS
WED125 Reiki: Healing and Symbols ..... 2
WED151 Introduction to Alternative Medicine ..... 3
WED162 Meditation and Wellness ..... 1
WED172 Overview of Herbal Remedies .....  1
WED176 Flower Essences ..... 1
WED182 Health Conditions and Popular Herbs ..... 2
WED183 Introduction to Ayurvedic Principles ..... 2
WED218 Aromatherapy ..... 1
WED225 Reiki: Master Level and Teacher Training + ..... 2
FOCUS AREA: MIND-BODY ACTIVITIES
PED101JU Judo ..... 1
PED101PS Pilates ..... 1
PED102PS Pilates - Intermediate ..... 1
PED103PS Pilates (0.5) (May be repeated) ..... 1
PED101TC Tai Chi ..... 1
PED102TC Chi - Intermediate. ..... 1
PED103TC Tai Chi (0.5) (May be repeated) .....  1
PED201TC Tai Chi - Advanced ..... 1
PED101YO Yoga ..... 1
PED102YO Yoga - Intermediate .....  1
PED103YO Yoga (0.5) (May be repeated) ..... 1
PED201YO Yoga - Advanced ..... 1
FOCUS AREA: HEALTH \& WELLNESS
FON241 Principles of Human Nutrition ..... 3
HES 100 Healthful Living ..... 3
SPT271 Sports Medicine Foundations. ..... 3
REC120 Leisure and the Quality of Life ..... 3

CONTACT: (602) 285.7295 or
marty.minton@phoenixcollege.edu

## Medical Administrative Assisting Certificate of Completion - CCL 5295

## 20-25 Credits

The Certificate of Completion (CCL) in Medical Administrative Assisting is designed to provide education and training for employment in various administrative health care settings. Medical Administrative Assistants are healthcare professionals who are key members of the administrative medical office team. They foster a friendly and positive patient experience while performing numerous administrative duties that adhere to all state and federal standards. Upon successful completion of the program, students are eligible to take the Certified Medical Administrative Specialist exam. A Certificate of Completion (CCL) and an Associate in Applied Science (AAS) in Medical Assisting are also available.

Program Notes: Formal application and acceptance into program is required. Per programmatic accreditation requirements, students must pass all the psychomotor and affective skills contained within each course in order to successfully complete the program. Students cannot repeat a course more than once. Successful completion of each successive MAS is required to progress in the Medical Administrative Assisting program. Students must earn a grade of C or better for all courses required within the program.

## Background Check Requirements

The Allied Health program requires that students be in compliance with the Maricopa County Community College District Supplemental Background Check policy. Program applications will not be accepted without a copy of an Arizona Department of Public Safety Level One Fingerprint Clearance Card. Students must maintain current fingerprint clearance throughout the practicum(s). Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy.

## Admission Criteria: None.

## Program Prerequisites: None.

| Required Courses: | 20-25 Credits |
| :--- | :--- |
| COM100 | Introduction to Human Communication (3) OR |
| COM110 | Interpersonal Communication (3) ......................................................... 3 |
| ENG100AC | The Mechanics of Written English + (1) OR |
| ENG101 | First-Year Composition + (3)........................................................... 1-3 |
| RDG100 | Successful College Reading + (3) OR |
|  | Successful placement test score (0) ................................................. 0-3 |
| MAS101 | Introduction to Medical Assisting ................................................................................. |

HCC145
MAS103
MAS104

Medical Terminology for Health Care Professionals (3) OR
Basic Anatomy, Physiology, and Medical Terminology + (3) . .3

Medical Administrative Assisting Practicum +......................................... 4
Restricted Electives: None.
General Electives: None.

CONTACT: (602) 285.7295 or
marty.minton@phoenixcollege.edu

## Medical Assisting <br> Associate in Applied Science - AAS 3291 <br> 67-77 Credits

The Associate in Applied Science (AAS) in Medical Assisting is designed to provide education and training for employment as Medical Assistants along with a transfer pathway to a Baccalaureate degree. Medical assistants are integral members of the administrative and clinical healthcare team in various healthcare settings. Medical assistants act as liaisons between the healthcare providers and patients, and are of vital importance to the success of the medical practice. Upon successful completion of the program, students are eligible to take the national certification exam. In addition, obtaining the Associate's degree is designed to provide an opportunity for advancement in the healthcare field. Certificates of Completion (CCL) in Medical Assisting and Medical Administrative Assisting are also available.

Program Notes: Students must be admitted to the program and cannot self-enroll in courses.
Successful completion of each MAS course is required to progress in the Medical Assisting program.
Per programmatic accreditation requirements, students must pass all the psychomotor and affective skills contained within each course in order to successfully complete the course.

Students cannot repeat a course more than once.
Students must earn a grade of C or better for all courses required within the program.
Students interested in transferring to the NAU BS in Health Science-Medical Assisting can satisfy the relevant Arizona General Education Curriculum (AGEC) and transfer requirements by completing the following courses:

An additional course with the Humanities, Arts and Design [HU] general studies designation3

BIO202 Human Anatomy and Physiology II +...................................................... 4
COM225 is recommended for students who wish to transfer to NAU BS in Health Sciences - Medical Assisting.

One of the following courses for students who are interested in transferring to a university:
College Mathematics + (5) OR
MAT141
MAT142
College Mathematics + (4) OR
MAT145
MAT146
College Mathematics + (3) OR

College Mathematics with Review (5) OR
College Mathematics with Review (6)
An additional course with the Computer/Statistics/Quantitative Applications
general studies designation ............................................................................................... 3
Recommend
MAT206 Elements of Statistics (3) OR
PSY230 Introduction to Statistics (3) OR
PSY230WL Introduction to Statistics with Laboratory (4)

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

Admission Criteria: Formal application and admission to the program is required.
Completion of the Certificate of Completion (CCL) in Medical Administrative Assisting (5295) AND
Completion of the Certificate of Completion (CCL) in Clinical Medical Assisting (5291)
Students must be at least 18 years of age to apply for admission. Must be a high school graduate or equivalent. Submit current CPR/BLS Provider card (American Heart Association approved) and maintain current status throughout the practicum(s). Complete and submit the Allied Health Student Health and Safety Documentation Checklist, with included documentation, signed by a licensed healthcare provider.

## Background Check Requirements

Admission to an Allied Health program requires that students be in compliance with the Maricopa County Community College District Supplemental Background Check policy. Program applications will not be accepted without a copy of an Arizona Department of Public Safety Level One Fingerprint Clearance Card. Students must maintain current fingerprint clearance throughout the practicum(s). Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy.

## Program Prerequisites: None.

Required Courses: $58-68$ Credits
FYE101

| Introduction to College, Career and Personal Success (1) OR |
| :--- |

FYE103 Exploration of College, Career and Personal Success (3).................... 1-3
Completion of the Certificate of Completion in Medical
$\quad$ Administrative Assisting (5295)..................................................................................20-25

General Education Requirements: 9 Credits
CORE: 3 Credits
First-Year Composition:
Met by ENG101 OR ENG107 in the Clinical Medical Assisting certificate.
AND
$\begin{array}{ll}\text { ENG102 } & \text { First-Year Composition + (3) OR } \\ \text { ENG108 } & \text { First-Year Composition for ESL + (3)....................................................... } 3\end{array}$
Oral Communication:
Met by COM100 or COM110 in the Clinical Medical Assisting certificate................................. 0
Critical Reading:
Met by CRE101 or Equivalent as indicated by assessment in the Required Courses area. 0

## Mathematics:

Met by MAT114 in the Clinical Medical Assisting certificate.

DISTRIBUTION: 6 Credits
Humanities, Arts and Design:
Any approved general education course from the Humanities, Arts and Design area. .................. 3
Social-Behavioral Sciences:
Any approved general education course from the Social-Behavioral Sciences area...................... 3
PSY101 Introduction to Psychology (3) is recommended for students interested in transferring to the NAU BS in Health Sciences - Medical Assisting.
Natural Sciences:
Met by BIO160 in the Clinical Medical Assisting certificate.

CONTACT: Dr. T. Thomas-Brogan, Program Director:
(602) 285.7149
dr.terinicka.brogan@phoenixcollege.edu

## Medical Billing and Coding: Physician- Based Certificate of Completion - CCL 5014 <br> 36 Credits

The Certificate of Completion (CCL) in Medical Billing and Coding: Physician-Based is designed to prepare individuals for entry-level medical billing and coding positions in ambulatory care treatment centers such as clinics, physician practices, managed care organizations, private billing services, and insurance companies.

Program Notes: Students must earn a grade of C or better for all courses required within the program.
Students must be willing to undergo a background check performed by the MCCCD approved vendor. (Students who are unsure of their background status may take a preliminary background check at their own expense before entering the program, results of which will not be sent to the college.)

The following courses must be completed within five (5) years of the Required HIM Course(s): BIO201, BIO202, and BPC110.

## PHOENIX COLLEGE:

Phoenix College offers a credit-based certificate.

## GATEWAY COMMUNITY COLLEGE:

GateWay Community College offers a clock-based certificate in Medical Billing and Coding

Admission Criteria: High school graduate or GED. Formal application and admission to the Medical Billing and Coding: Physician-Based certificate program is required. Ability to fully participate in professional practice in the health care settings. Applications can be obtained from advisement or from the College website.

## Background Check Requirements

Program applications will not be accepted without a copy of the Arizona Department of Public Safety Level One Fingerprint Clearance Card. Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy.

Program Prerequisites: None.
Required Courses: 36 Credits
BIO156 Introductory Biology for Allied Health + (4) OR
BIO181 General Biology (Majors) I + (4).
BIO201 Human Anatomy and Physiology I +....................................................... 4
BIO202 Human Anatomy and Physiology II +...................................................... 4
BPC110 Computer Usage and Applications........................................................... 3
HCC145 Medical Terminology for Health Care Professions .................................... 3
HIM101 Introduction to Health Information Management + ................................... 3
HIM180 Introduction to Medical Billing and Reimbursement + ............................. 2
HIM181 Medical Claims Processing + ................................................................... 3

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

HIM200
HIM208
HIM213
HIM215
HIM216

Human Pathophysiology and Pharmacology for
Health Information Management (HIM) Professionals +..................... 3
ICD-CM Diagnostic Coding +................................................................. 2
CPT and HCPCS Coding +...................................................................... 3

Professional Practice in Physician-Based Billing and Coding +................ 1

CONTACT: Dr. T. Thomas-Brogan, Program Director:
(602) 285.7149
dr.terinicka.brogan@phoenixcollege.edu

## Medical Coding: Hospital-Based Certificate of Completion - CCL 5092 <br> 42 Credits

The Certificate of Completion (CCL) in Medical Coding: Hospital- Based is designed to prepare individuals for diagnostic and procedural coding positions in hospitals and hospital-based settings such as outpatient clinics, emergency departments, and surgery centers. The program is approved by the American Health Information Management Association (233 N. Michigan Avenue, Suite 2150, Chicago, IL 60601-5800) and is designed to provide the foundation needed for comprehensive entry-level coding certification examinations.

Program Notes: Students must earn a grade of C or better for all courses required within the program.

Students must be willing to undergo a background check performed by the MCCCD approved vendor. (Students who are unsure of their background status may take a preliminary background check at their own expense before entering the program, the results of which will not be sent to the college.).

The following courses must be completed within five (5) years of the Required HIM Course(s): BIO201, BIO202, BPC110, and HIM200.

Admission Criteria: High school graduate or GED. Formal application and acceptance to the Medical Coding: Hospital-Based certificate program is required. Applications can be obtained from Advisement or from the College website. Ability to fully participate in classroom laboratory, and professional practice settings.

## Background Check Requirements

Program applications will not be accepted without a copy of an Arizona Department of Public Safety Level One Fingerprint Clearance Card. Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy.

Program Prerequisites: None.

| Required Courses: 42 Credits |  |
| :--- | :--- |
| BIO156 | Introductory Biology for Allied Health + (4) OR |
| BIO181 | General Biology (Majors) I + (4).......................................................... 4 |

BIO201 Human Anatomy and Physiology I +........................................................ 4
BIO202 Human Anatomy and Physiology II +...................................................... 4
BPC110 Computer Usage and Applications ............................................................ 3
HCC145 Medical Terminology for Health Care Professionals.................................. 3
HIM101 Introduction to Health Information Management +................................... 3
HIM180 Introduction to Medical Billing and Reimbursement +............................. 2
HIM181 Medical Claims Processing + .................................................................. 3
HIM200 Human Pathophysiology and Pharmacology for Health Information Management (HIM) Professionals +..................... 3
HIM208 ICD-CM Diagnostic Coding +.................................................................. 2
HIM210 ICD-PCS Coding and ICD Applications +............................................... 2

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

HIM211
HIM213
HIM221
HIM222

Advanced Applications of Coding and Reimbursement + ........................ 4
CPT and HCPCS Coding + .................................................................... 3
Medical Coding Seminar +..................................................................... 1
Professional Practice in Medical Coding + .............................................. 1
Restricted Electives: None.

CONTACT: Ms. R. Helminski, Program Director:
(602) 285.7295 or
marty.minton@phoenixcollege.edu

## Medical Laboratory Science <br> Associate in Applied Science - AAS 3028 <br> 71-83 Credits

The Associate in Applied Science (AAS) in Medical Laboratory Science degree provides education and training for employment in various medical, clinical and bioscience laboratories. Medical Laboratory Technicians (MLT's) perform technically precise laboratory precise laboratory procedures using quality assurance and process improvement knowledge in compliance with appropriate regulatory guidelines to ensure quality patient care, work safety, and medico-legal standards by conducting a variety of tests on various specimens submitted to medical and clinical laboratories. Students in the Medical Laboratory Science program may be exposed to potentially infectious blood tissues, and body fluids. A Certificate of Completion (CCL) in Medical Laboratory Science is also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program. Please note the additional GPA requirements in the Program Prerequisites area. Completion of Anatomy and Physiology, Biology, Chemistry, Mathematics and Phlebotomy courses within the last eight (8) years is required. Courses must be completed within eight (8) years as part of the degree completion for admission or readmission to the Medical Laboratory Science Program. ASU courses may be taken concurrently.

Admission Criteria: High school diploma or GED equivalent. Completion of Program Prerequisites. Proof of current immunization: Measles, Mumps, and Rubella (MMR), tuberculosis skin test (TB), varicella, tetanus, diphtheria, Hepatitis B vaccine (HEB), and Seasonal Flu vaccine. Submit current CPR card for Health Care Provider and maintain current status throughout the practicum(s). Complete and submit health declaration form signed by a licensed health care provider. Submit to a drug screening and demonstrate negative results. Ability to fully participate in classroom, laboratory, or clinical setting program activities. A formal application and admission or readmission to the Medical Laboratory Science Program is required. Application to the Medical Laboratory Science program can be obtained from a Health Professions Advisor, the Program Director, or via the Phoenix College Health Professions, Fitness and Wellness Web site.

## Background Check Requirements

Admission to an Allied Health program requires that students be in compliance with the Maricopa County Community College District Supplemental Background Check policy. Program applications will not be accepted without a copy of an Arizona Department of Public Safety Level One Fingerprint Clearance Card. Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy.

Program Prerequisites: 34-44 Credits
Please note the specific GPA requirements.
Students must have completed the following courses within eight (8) years prior to admission or readmission to the Medical Laboratory Science Program with a GPA of 3.5 or higher:

General Biology (Majors) I + (4) OR
BIO181XT General Biology (Majors) I + (4) OR Equivalent (4)

MDL245 Practicum: Clinical Immunohematology and Immunology + ..... 1
MDL246 Clinical Microbiology + ..... 6
MDL247 Practicum: Clinical Microbiology + ..... 1
MDL248 Clinical Chemistry + .....  6
MDL249 Practicum: Clinical Chemistry + .....  1
MDL252 Clinical Preparation I + ..... 0.5
MDL263 Clinical Preparation II + ..... 0.5
MDL291 Medical Laboratory Science Program Capstone + .....  1
Restricted Electives: None.
General Electives: None.
General Education: 0 CreditsCORE: 0 Credits
First-Year Composition:
Met by any approved general education courses from the First-Year Composition courses in the Program Prerequisites area ..... 0
Oral Communication:
Met by any approved general education course from the Oral Communication courses in the Program Prerequisites area. COM225 recommended for transfer (L).... ..... 0
Critical Reading:
Met by any approved general education course from the Critical Reading area OR Equivalent as indicated by assessment in the Program Prerequisites area ..... 0
Mathematics:
Met by MAT140 or MAT141 or MAT142 or Satisfactory completion of a higher-level mathematics course in the Program Prerequisites area .....  0
DISTRIBUTION: 0 Credits
Humanities, Arts and Design:
Met by any approved general education course from the Humanities, Arts and Design in the ProgramPrerequisites area.0
Social-Behavioral Sciences:
Met by any approved general education course from the Social-Behavioral Sciences in the Program Prerequisites area. ..... 0
Natural Sciences:
Met by BIO160 or BIO201 or equivalent in the Program Prerequisites area ..... 0

CONTACT: Ms. R. Helminski, Program Director:
(602) 285.7295 or
marty.minton@phoenixcollege.edu

## Medical Laboratory Science

## Certificate of Completion - CCL 5493 <br> 63-74 Credits

The Certificate of Completion (CCL) in Medical Laboratory Science degree provides education and training for employment in various medical, clinical and bioscience laboratories. Medical Laboratory Technicians (MLT's) perform technically precise laboratory precise laboratory procedures using quality assurance and process improvement knowledge in compliance with appropriate regulatory guidelines to ensure quality patient care, work safety, and medico- legal standards by conducting a variety of tests on various specimens submitted to medical and clinical laboratories. Students in the Medical Laboratory Science program may be exposed to potentially infectious blood tissues, and body fluids. An Associate in Applied Science (AAS) in Medical Laboratory Science is also available.

Program Notes: Students must earn a grade of C or better in all courses within the program. Please note the additional GPA requirements in the Program Prerequisites area. Completion of Anatomy and Physiology, Biology, Chemistry, Mathematics and Phlebotomy courses within the last eight (8) years is required. Students must have completed these courses within eight (8) years as part of the degree completion for admission or readmission to the Medical Laboratory Science Program.

Admission Criteria: High school diploma or GED equivalent. Completion of an Associate's degree or higher in a health science discipline from a regionally accredited institution of higher education recognized by Maricopa County Community College District.

Completion of Program Prerequisites. Proof of current immunization: Measles, Mumps, and Rubella (MMR), tuberculosis skin test (TB), varicella, tetanus, diphtheria, Hepatitis B vaccine (HEB), and Seasonal Flu vaccine. Submit current CPR card for Health Care Provider and maintain current status throughout the practicum(s). Complete and submit health declaration form signed by a licensed health care provider. Submit to a drug screening and demonstrate negative results. Ability to fully participate in classroom, laboratory, or clinical setting program activities. A formal application and acceptance or readmission into the Medical Laboratory Science program is required. Application to the Medical Laboratory Science program can be obtained from a Health Professions Advisor, the Program Director, or via the Phoenix College Health Professions, Fitness and Wellness Web site.

## Background Check Requirements

Admission to an Allied Health program requires that students be in compliance with the Maricopa County Community College District Supplemental Background Check policy. Program applications will not be accepted without a copy of an Arizona Department of Public Safety Level One Fingerprint Clearance Card. Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy.

## Program Prerequisites: 27-38 Credits

Please note the specific GPA requirements.
Students must have completed the following courses within eight (8) years prior to admission or readmission to the Medical Laboratory Science Program with a GPA of 3.5 or higher:
BIO181 General Biology (Majors) I + (4) OR
BIO181XT General Biology (Majors) I + (4) OR Equivalent (4)

| BIO160 | Introduction to Human Anatomy and Physiology (4) OR |
| :---: | :---: |
| BIO201 | Human Anatomy and Physiology I + (4) OR |
| BIO201XT | Human Anatomy and Physiology I + (4) OR |
|  | Equivalent (4) ............................................................................... 4 |
| BIO205 | Microbiology + ...................................................................... 4 |
| CHM130 | Fundamental Chemistry + (3) AND |
| CHM130LL | Fundamental Chemistry Laboratory + (1) OR |
|  | Satisfactory completion of higher-level chemistry course (4)................ 4 |
| MAT140 | College Mathematics + (5) OR |
| MAT141 | College Mathematics + (4) OR |
| MAT142 | College Mathematics + (3) OR |
| MAT145 | College Mathematics with Review + (5) OR |
| MAT146 | College Mathematics with Review + (6) OR |
|  | Satisfactory completion of a higher-level mathematics course (3-6)......33-6 |
| PLB109 | Phlebotomy: Basic Skills + (2) AND |
| PLB111 | Specimen Processing and Advanced Techniques in |
|  | Phlebotomy Procedures + (2) OR |
|  | Verification of two years of employment as a clinical lab assistant specimen processer, or phlebotomist (0). $\qquad$ 0-4 |
| The following courses must be completed with a GPA of 3.25 or better: |  |
| First-Year Composition: |  |
| ENG101 | First-Year Composition + (3) OR |
| ENG107 | First-Year Composition for ESL + (3) AND |
| ENG102 | First-Year Composition + (3) OR |
| ENG108 | First-Year Composition for ESL + (3) .......................................... 6 |
| Oral Communication: |  |
| COM100 | Introduction to Human Communication (3) OR |
| COM110 | Interpersonal Communication (3) OR |
| COM225 | Public Speaking + (3) OR |
| COM230 | Small Group Communication (3)....................................................... 3 |
| Critical Reading: |  |
| CRE101 | College Critical Reading and Critical Thinking + (3) OR |
| Equivalent as indicated by assessment (0)............................................................. 0-3 |  |
| Required Courses: 36 Credits |  |
| MDL190 | Clinical Laboratory Operations +.................................................... 2 |
| MDL240 | Clinical Urinalysis and Body Fluid Analysis + ................................. 3 |
| MDL241 | Practicum: Clinical Urinalysis and Body Fluid Analysis + .................... 1 |
| MDL242 | Clinical Hematology and Hemostasis + ....................................... 6 |
| MDL243 | Practicum: Clinical Hematology and Hemostasis +............................. 1 |
| MDL244 | Clinical Immunohematology and Immunology + ................................ 6 |
| MDL245 | Practicum: Clinical Immunohematology and Immunology + ................. 1 |
| MDL246 | Clinical Microbiology + .................................................................... 6 |
| MDL247 | Practicum: Clinical Microbiology +................................................... 1 |
| + indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses. |  |

MDL248
MDL249
MDL252
MDL263
MDL291

Clinical Chemistry +............................................................................. 6
Practicum: Clinical Chemistry + . .. 1
Clinical Preparation I + .......................................................................... 0.5
Clinical Preparation II + ....................................................................... 0.5
Medical Laboratory Science Program Capstone + ............................................ 1

Restricted Electives: None.

# The Maricopa Community Colleges Allied Health or Nursing Program (S-13) 

Allied Health or Nursing Assumption of Risk/Release of Liability

Most of the allied health or nursing program pathways include a program of study in a clinical training environment which may contain exposures to risks inherent in patient-oriented educational experiences, such as but not limited to, bodily injury or communicable and infectious diseases. Students enrolling in clinical educational courses will be asked to sign a statement assuming all risks inherent in their coursework.

## Use of Confidential Information

Students enrolled in allied health or nursing program pathways will have learning experiences in a health care setting where they will have access to confidential information. Prior to beginning any clinical studies, the students will be asked to sign an agreement to adhere to the requirements of those clinical sites and applicable law, including the Health Insurance Portability and Accountability Act of 1996 (HIPAA).

## MCCCD Required Background Checks

Students enrolled in an MCCCD allied health or nursing program are required to complete and pass clinical learning experiences, working with children, elderly persons, and other vulnerable populations. MCCCD's major clinical agency partners now mandate that any students assigned to them for clinical experiences submit to a comprehensive background clearance prior to entering such learning experiences. Because the clinical experience portion of the programs is critical to completing a program of study, MCCCD has instituted two specific background check requirements in order for a student to enroll in a program. First, the student must obtain, at his or her own cost, a Level I Fingerprint Clearance Card from the Arizona Department of Public Safety. Precluding offenses for a Level I card can be found in Arizona Revised Statute § 41-1758.07
(https://www.azleg.gov/viewdocument/?docName=https://www.azleg.gov/ars/41/01758-07.htm). Additionally, students must also obtain a "pass" status on a MCCCD supplemental background check from MCCCD's authorized background check contractor. The student must also pay for this background check. The supplemental check will be based on the most stringent standards of MCCCD's clinical experience partners.

The sole program for which the background check requirements are different is the Emergency Medical Technician program. For that program, students must have obtained a Level 1 Fingerprint Clearance Card from the Arizona Department of Public Safety. They are also required, at the time of their clinical assignments, to submit to, pay for and pass any additional background check requirements of the clinical agencies to which their EMT program places students.

Certain licensing boards may require a separate background check or clearance card upon application for licensure or certification.

The MCCCD supplemental background check review may include searches of the following databases and information but MCCCD reserves the right to change the search criteria and the program background check requirements at any time without notice:

1. National Federal Health Care and Abuse Databases
2. Social Security Verification
3. Residency History
4. Arizona Statewide Criminal Records
5. Nationwide Criminal Databases

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.


## 6. Nationwide Sexual Offender Registry

7. Homeland Security Search

Examples of background information that will result in a "fail" status on the supplemental background check include:

1. Social Security number does not belong to the applicant
2. Any inclusion on any registered sex offender database
3. Any inclusion on any of the Federal exclusion lists or Homeland Security watch lists
4. Any conviction of a felony no matter what age of the convictions
5. Any warrant any state
6. Any misdemeanor conviction for the following no matter how long ago:
A. Violent crimes
B. Sex crime of any kind including nonconsensual sexual crimes and sexual assault
C. Murder, attempted murder
D. Abduction
E. Assault
F. Robbery
G. Arson
H. Extortion
I. Burglary
J. Pandering
K. Any crime against minors, children, vulnerable adults including abuse, neglect, exploitation
L. Any abuse or neglect
M. Any fraud
N. Illegal drugs
O. Aggravated DUI
7. Any misdemeanor-controlled substance conviction in last 7 years
8. Any other misdemeanor conviction within last 3 years [EXCEPTIONS: Any misdemeanor traffic (DUI is NOT considered traffic.)]

The information that MCCCD uses for the "pass/fail" background check is subject to change at any time without notice.

MCCCD recommends that students carry proof of the background clearance at all times during any clinical agency learning experience.

## Duty to Report Changes; Removal

Students have an obligation to immediately report to the director of their program any change in the information that they supplied on forms submitted to initiate background checks relating to the allied health or nursing program. That includes information provided to the Arizona Department of Public Safety and MCCCD's supplemental background check vendor, as well as that related to the background check required by a clinical agency. Failure to do so will result in removal from the program. Additionally, any change in background check status that would affect the student's clearance under either MCCCD's or a clinical agency's standards will result in removal from a program.

## Additional Clinical Agency Background Check

Some clinical agencies require that students assigned to their sites submit to a criminal background check covering other offenses, as well as to a drug screening. Students are required to pay for the additional agency clinical background check. A clinical agency that requires this additional background check may refuse to place a student due to information the clinical agency obtains in its background

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check even though that student possess a valid Level I Fingerprint Clearance Card and has obtained a "pass" status on the MCCCD supplemental background check.
Some conditions that have resulted in students being denied placement at clinical agencies include pending criminal charges, outstanding warrants, unfinished terms of a sentence (such as unpaid fines), pattern of repeated types of arrests/convictions, and failure to disclose all past arrests/convictions when asked to do so on any background check application.


## Inability to Place

MCCCD has no obligation to make repeated attempts to place a student when the reason for MCCCD's inability to place the student is due to background check issues. Since clinical agency assignments are mandatory requirements for completion of a program, a student's inability to complete required clinical experience due to his or her background check issues will result in removal from the program.

## Changes to Admission or Background Check Requirements

MCCCD may change its program admission requirements or background check requirements without notice at any time.

## No Guarantee of Receipt of Licensure/Certificate

Many of the nursing and allied health programs prepare graduates for application for State or National certificates or licenses. In some professions, such licensure and certification is required prior to employment or practice in the profession. Graduation from a nursing and allied health program does not guarantee the receipt of a license or certificate to practice in the field of study.

CONTACT: Ms. C. Powers, Department Chair:
(602) 532.8615

## Nursing

## Associate in Applied Science -- 3812

## 62-75 Credits

The Associate in Applied Science (AAS) in Nursing Program is available at eight of the Maricopa Community Colleges. Clinical experiences are provided in a variety of healthcare settings. Nursing Program graduates are eligible to apply for the national exam for the registered nurse license. Licensing requirements are the exclusive responsibility of the State Board of Nursing.

The Associate in Applied Science (AAS) Nursing Program is approved by the Arizona State Board of Nursing and accredited by the Accreditation Commission for Education in Nursing (ACEN), 3390 Peachtree Road NE, Suite 1400, Atlanta, GA 30326; (404.975.5000); email: info @ acennursing.org.

This program is offered at the following sites:
Chandler-Gilbert Community College
Estrella Mountain Community College
GateWay Community College
Glendale Community College
Mesa Community College
Paradise Valley Community College
Phoenix College
Scottsdale Community College

## Waiver of Licensure/Certification Guarantee:

Admission or graduation from the Nursing Program does not guarantee obtaining a license to practice nursing. Licensure requirements and the subsequent procedures are the exclusive right and responsibility of the Arizona State Board of Nursing. Students must satisfy the requirements of the Nurse Practice Act: Statutes, Rules and Regulations, independently of any college or school requirements for graduation. Pursuant to A.R.S. 32-1606(B)(17), an applicant for professional or practical nurse license by examination is not eligible for licensure if the applicant has any felony convictions and has not received an absolute discharge from the sentences for all felony convictions. The absolute discharge must be received five or more years before submitting this application. If you cannot prove that the absolute discharge date is five or more years, the Board cannot process your application.

Level One Fingerprint Clearance is required for admission into the program. Applicants must present a Level One Fingerprint Clearance Card to be copied by the advisor or designee. For a Department of Public Safety Fingerprint Clearance Card application, contact MCCCD Healthcare/Nursing Advisor. If there is any question about eligibility for licensure or certification, contact the nursing education consultant at the Arizona State Board of Nursing (602.771.7800).

## Health Declaration:

It is essential that nursing students be able to perform a number of physical activities in the clinical portion of the program. At a minimum, students will be required to lift patients, stand for several hours at a time and perform bending activities. Students who have a chronic illness or condition must be maintained on current treatment and be able to implement direct patient care. The clinical nursing experience also places students under considerable mental and emotional stress as they undertake responsibilities and duties impacting patients' lives. Students must be able to demonstrate rational and appropriate behavior under stressful conditions. Individuals should give careful consideration to the

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mental and physical demands of the program prior to making application. All must provide documentation of compliance with all health and safety requirements required to protect patient safety. Only students in compliance are permitted to enroll in nursing courses. Students will meet these requirements by providing the required documentation for the Health/Safety Requirements Documentation Checklist and the signed Health Declaration Form.


## Health and Safety Requirements for the MaricopaNursing Program:

Students must submit a Health and Safety Documentation Checklist verifying completion of all requirements and maintain current status throughout the program. Students must submit the Health Declaration Form signed by a licensed health care provider. Students must test negative on a timed urine drug screen.

Admission to an Allied Health program requires that students be in compliance with the Maricopa County Community College District Supplemental Background Check policy. Program applications will not be accepted without a copy of an Arizona Department of Public Safety Level One Fingerprint Clearance Card. Upon conditional program admission, the student must comply with all requirements of the current MCCCD background check policy.

## University Transfer Students:

Students who are planning to earn the Bachelor of Science in Nursing may obtain their prerequisite courses at the Maricopa Community Colleges. For information on courses that meet requirements for admission into a baccalaureate program, please contact a program advisor.

## REGISTERED NURSE PATHWAY

Associate in Applied Science Degree in Nursing Program
The Associate in Applied Science (AAS) degree in Nursing graduate is eligible to apply for licensure as a Registered Nurse (RN). The RN is educated as a generalist who delivers health care to clients and family groups and has competencies related to the art and science of nursing. The RN may be employed in a variety of acute, long term, and community-based healthcare settings. The AAS degree in Nursing provides the graduate with an educational foundation for articulation into the university setting.

Program Notes: Students must earn a grade of C or better in all courses required within the program. Students must complete the following general education and introductory courses with a 2.0 GPA to be added to the queue of those waiting for an available cohort space to begin the core curriculum. BIO156 or BIO181, BIO201, CHM130 and CHM130LL, CHM130AA, ENG101 or ENG107, MAT140 or MAT141 or MAT142.

## Course Fee Information:

Please see class schedule for information regarding course fees.

MaricopaNursing is aligned with Nurse of the Future Competencies: Person-Centered Care, Professionalism, Leadership, Systems-Based Practice, Informatics and Technology, Communication, Teamwork and Collaboration, Safety, Quality Improvement, and Evidence-Based Practice. These competencies focus on key stakeholders of healthcare clients, colleagues and communities. Demonstration of the competencies will signify preparation for successful transition into nursing practice and further professional development.

Admission Criteria: High school diploma or GED is required for the Associate in Applied Science degree in Nursing. Applicants must signify that they meet this requirement by providing high school diploma/transcripts or GED completion OR by signing the nursing application page containing the
'Declaration of High School Graduation or GED Completion. In some instances, high school diploma/ transcripts or proof of GED completion may be required.

Formal application and admission to the program is required. There are limited spaces available in the Nursing program. Only students who have completed all of the general education and introductory courses noted above may have their name added to the queue of those waiting for an available space in a cohort. A passing score on a nursing program admission test is required to complete an application.

Successful completion of a nurse assistant course (course must include an in-person clinical component) or certification or licensure as a Nurse Assistant is required to complete an application. The Nurse Assistant course does not have to be completed at a Maricopa college and certification or licensure is not required to apply. There is currently no time limit on when the Nurse Assistant course was taken.

Applicants for Advanced Placement must receive a passing score on a practical nursing content exam for placement into Block 3. The final placement decision rests with the Nursing Program Chair at the college to which the student is accepted. Advanced placement applications are maintained for two years from the date of application. After two years, the applicant is required to review, update, and resubmit the application.

The Nursing Program Chair reserves the right to deny acceptance of an admission application if the applicant was previously dismissed for issues relating to academic integrity, unsafe patient care, and/or two (2) or more failures from any nursing program.

All applicants holding or receiving a certificate or license as a Nursing Assistant and/or license as a Practical Nurse must remain in good standing with the Regulatory Board. Once enrolled, students receiving any disciplinary actions against their certificate or license must notify the Nursing Program Chair within five (5) school days. The Nursing Program Chair reserves the right to restrict the student's participation in clinical experiences and involvement in patient care until the certificate and/or license is valid and unrestricted.

## Program Prerequisites: None

Required Courses: 40-48 Credits
BIO156 Introductory Biology for Allied Health +(4) OR BIO181 General Biology (Majors) I (4) + OR
One year of high school biology (0) 0-4
BIO201 Human Anatomy and Physiology I + ..... 4
CHM130 Fundamental Chemistry + (3) ANDCHM130LL Fundamental Chemistry Laboratory (1) + ORCHM130AA Fundamental Chemistry with Lab + (4) OROne year of high school chemistry (0)0-4
NUR152 Nursing Theory and Science I + ..... 9
NUR172 Nursing Theory and Science II + ..... 9
NUR252 Nursing Theory and Science III +. ..... 9
NUR283 Nursing Theory and Science IV + .....  9

General Education: 22-27 Credits
CORE: 9-14 Credits
First-Year Composition:
$\begin{array}{ll}\text { ENG101 } & \text { First Year Composition + (3) OR } \\ \text { ENG107 } & \text { First-Year Composition for ESL + (3) AND } \\ \text { ENG102 } & \text { First-Year Composition + (3) OR } \\ \text { ENG108 } & \text { First-Year Composition for ESL + (3) ..................................................... } 6\end{array}$
Oral Communication:
Waived $\quad . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~$ 0
Critical Reading:
CRE101 College Critical Reading and Critical Thinking + (3) OR Equivalent as indicated by assessment. 0-3
Mathematics:
MAT140 College Mathematics + (5) OR
MAT141 College Mathematics + (4) OR
MAT142 College Mathematics + (3) OR Satisfactory completion of higher-level mathematics course ...................3-5

DISTRIBUTION: 13 Credits
Humanities, Arts and Design:
Any approved general education course in the Humanities, Arts and Design area........................ 2
Social-Behavioral Sciences:
PSY101 Introduction to Psychology ...................................................................... 3
Natural Sciences:
BIO202 Human Anatomy and Physiology II + (4) AND
BIO205
Microbiology + (4)
. 8

CONTACT: Mr. G. Trainor, Program Director:
(602) 285.7125

## Paramedicine

Associate in Applied Science - AAS 3889

## 63-75 Credits

The Associate in Applied Science (AAS) in Paramedicine is a nationally accredited program designed to prepare students to become Paramedics. This program is a formal education in such paramedicine topics as anatomy and physiology, pathophysiology, cardiology, pulmonary, pharmacology, pediatrics, geriatrics hematology, and toxicology. Paramedicine builds upon EMT education and includes paramedic scope of practice. Paramedicine is integrated with fire service, law enforcement, ground transport services, flight transport services, search and rescue, hospitals, clinical setting, community paramedicine, and EMS education. There is a Certificate of Completion (CCL) in Paramedicine available.

Program Notes: Students must earn a grade of B or better in all PME courses required within the program.

Admission Criteria: Students must be current and in good standing with the Arizona Department of Health Services Bureau of Emergency Medical Services-Certified as an Emergency Medical Technician. EMT certification preparatory courses are available at Maricopa County Community Colleges. Contact an academic advisor for details.

Students must complete an application and selection process.

## Program Prerequisites: None

| Required Courses: <br> BIO160 | 45-51 Credits |
| :--- | :--- |
| Introduction to Human Anatomy and Physiology ........................................ 4 |  |

PME191 $\begin{aligned} & \text { Introduction to Pharmacology for EMS Professionals (3) OR } \\ & \text { Permission of Program Director (0) ................................................. 0-3 }\end{aligned}$
PME201 Advanced Cardiac Life Support (ACLS) Initial Provider
PME202 Pediatric Advanced Life Support (PALS) Initial Provider in Paramedicine + 1

PME203 Pediatric Emergencies for Prehospital Professionals (PEPP)
Initial Provider in Paramedicine + .....  1
PME204 Neonatal Resuscitation Provider (NRP) in Paramedicine + ..... 0.5

PME205 Advanced Medical Life Support (AMLS) Initial Provider in Paramedicine + 1
PME206 International Trauma Life Support (ITLS) Provider/ Pre-Hospital Trauma Life Support (PHTLS) + .....  1
PME240 Pharmacology in Paramedicine + ..... 3
PME245 Airway and Ventilatory Management in Paramedicine + ..... 3

| PME250 | Comprehensive Patient Assessment in Paramedicine + ..................... 1 |
| :---: | :---: |
| PME251 | Medical Emergencies in Paramedicine I + ...................................... 4 |
| PME252 | Medical Emergencies in Paramedicine II +................................... 4 |
| PME253 | Medical Emergencies in Paramedicine III + ..................................... 4 |
| PME254 | Technical Operations in Paramedicine +..................................... 2.5 |
| PME260 | Trauma Patient Management in Paramedicine +............................... 2 |
| PME270 | Immersive Total Patient Management Experience (ITPME) +... |
| PME280 | Preparation for Paramedicine Practicum + |
| PME281 | Paramedicine Clinical Practicum: Comprehensive + (2) OR |
| PME281AA | Paramedicine Clinical Practicum: Phase I + (1) AND |
| PME281AB | Paramedicine Clinical Practicum: Phase II + (1) .................................... 2 |
| PME288 | Paramedicine Comprehensive Field Internship Practicum + ................. 5 |
| PME289 | Preparation for Paramedic National Credentialing +.................................................. 2 |
| General Education Requirements: 18-24 Credits |  |
| CORE: 12-18 Credits |  |
| First-Year Composition: |  |
| ENG101 | First-Year Composition + (3) OR |
| ENG107 | First-Year Composition for ESL + (3) AND |
| ENG102 | First-Year Composition + (3) OR |
| ENG108 | First-Year Composition for ESL + (3) .......................................... |
| Oral Communication: |  |
| COM100 | Introduction to Human Communication (3) OR |
| COM110 | Interpersonal Communication (3) OR |
| COM225 | Public Speaking + (3) OR |
| COM230 | Small Group Communication (3) |
| COM225 recommended for students who intend to transfer to satisfy the AGEC-A literacy requirement. |  |
| COM110 or COM230 recommended for students who do not intend to transfer. |  |
| Critical Reading: |  |
| CRE101 | College Critical Reading and Critical Thinking + (3) OR |
| equivalent as | d by assessment.............................................................................0-3 |
| Mathematics: |  |
| MAT126 | Intermediate Algebra with Review + (6) OR |
| MAT120 | Intermediate Algebra + (5) OR |
| MAT121 | Intermediate Algebra + (4) OR |
| MAT122 | Intermediate Algebra + (3) ......................................................... 3-6 |
| MAT150, or MAT151, or MAT152 recommended for students who intend to transfer. |  |

DISTRIBUTION: 6 Credits
Humanities, Arts and Design:
Any approved general education course from the Humanities, Arts and Design area ..... 3
Social-Behavioral Sciences:
Any approved general education course from the Social and Behavioral Sciences area .....  3
AJS/EMT/FSC/SWU258 Victimology and Crisis Management (3) recommended for Track II students. Natural Sciences: Met by BIO160 in the Required Courses area ..... 0

CONTACT: Mr. G. Trainor, Program Director:
(602) 285.7125

## Paramedicine <br> Certificate of Completion - CCL 5990 45 Credits

The Certificate of Completion (CCL) in Paramedicine is a nationally accredited program designed to prepare students to become Paramedics. This program is a formal education in such paramedicine topics as anatomy and physiology, pathophysiology, cardiology, pulmonary, pharmacology, pediatrics, geriatrics hematology, toxicology. Paramedicine builds upon EMT education and includes paramedic scope of practice. Paramedicine is integrated with fire service, law enforcement, ground transport services, flight transport services, search and rescue, hospitals, clinical setting, community paramedicine, and EMS education. There is an Associate in Applied Science (AAS) in Paramedicine available.

Program Notes: Students must earn a grade of B or better in all PME courses required within the program.

Admission Criteria: Students must be current and in good standing with the Arizona Department of Health Services Bureau of Emergency Medical Services-Certified as an Emergency Medical Technician. EMT certification preparatory courses are available at Maricopa County Community Colleges. Contact an academic advisor for details. Students must complete an application and selection process.

## Program Prerequisites: None.

## Required Courses: 45 Credits

| BIO160 | Introduction to Human Anatomy and Physiology ........................................ 4 |
| :--- | :--- |
| PME201 | Advanced Cardiac Life Support (ACLS) Initial Provider |

PME201 Advanced Cardiac Life Support (ACLS) Initial Provider $\begin{aligned} & \text { in Paramedicine + .............................................................................. } 13\end{aligned}$
PME202 $\begin{array}{r}\text { Pediatric Advanced Life Support (PALS) Initial Provider } \\ \text { in Paramedicine }+\ldots \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~\end{array}$
PME203 $\begin{array}{r}\text { Pediatric Emergencies for Prehospital Professionals (PEPP) } \\ \text { Initial Provider in Paramedicine }+\ldots \ldots \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~\end{array} 1$
PME204 Neonatal Resuscitation Provider (NRP) in Paramedicine +...................... 0.5
PME205 Advanced Medical Life Support (AMLS) Initial Provider in Paramedicine + 1

PME206 International Trauma Life Support (ITLS) Provider/
Pre-Hospital Trauma Life Support (PHTLS) +. .....  1

PME240

Pharmacology in Paramedicine + .....  3

PME245

Airway and Ventilatory Management in Paramedicine + ..... 3
PME250 Comprehensive Patient Assessment in Paramedicine + .....  1
PME251 Medical Emergencies in Paramedicine I + ..... 4
PME252 Medical Emergencies in Paramedicine II + ..... 4
PME253 Medical Emergencies in Paramedicine III ..... $+4$
PME254 Technical Operations in Paramedicine + ..... 2.5
PME260 Trauma Patient Management in Paramedicine + ..... 2
PME270 Immersive Total Patient Management Experience (ITPME) + .....  2
PME280 Preparation for Paramedicine Practicum + ..... 1

PME281 Paramedicine Clinical Practicum: Comprehensive + (2) OR
PME281AA
PME281AB
PME288 Paramedicine Comprehensive Field Internship Practicum + ..................... 5
PME289
Preparation for Paramedic National Credentialing +................................. 2

CONTACT: Mr. G. Trainor, Program Director: (602) 285.7125

## Tactical Emergency Casualty Care

 Certificate of Completion - CCL 5998N2.5 Credits

The Certificate of Completion (CCL) in Tactical Emergency Casualty Care is designed to provide the knowledge, skills and ability to synthesize standard of care and expanded scope of practice with comprehensive assessment, diagnostic technology, patient advocacy, ethical and professional behaviors, to practice patient-centered evidence-based paramedicine in the tactical emergency setting. This certificate prepares students for a tactical emergency casualty care paramedic credential.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all courses required within the program.

Admission Criteria: Current state Paramedic certification.
Program Prerequisites: None.
Required Courses: 2.5 Credits
PME293 Tactical Emergency Casualty Care (TECC) . . . . . . . . . . . . . . . 2.5

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.


# Science, Technology, Engineering and Mathematics 

CONTACT: Dr. S. Thorpe, Department Chair:<br>(602) 285.7819 and/or<br>steve.thorpe@phoenixcollege.edu


#### Abstract

Environmental and Natural Resource Stewardship Academic Certificate - AC 6227N 25-27 Credits The Academic Certificate (AC) in Environmental and Natural Resource Stewardship program develops knowledge and understanding of the environmental and natural resource issues, problems, and policies through the study of selected courses. Students will examine the ethical theories and moral principles of global environmental issues, explore methods of inquiry, and the human impact on ecosystems and human policy related to natural resources.


Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better in all the courses within the program.

Admission Criteria: None

## Program Prerequisites: 0-7 Credits

A grade of C or better in:
High school Biology (0) OR
BIO100 Biology Concepts (4) OR
BIO181 General Biology (Majors) I + (4) OR
BIO181XT General Biology (Majors) I + (4) OR Permission of Instructor.
(ABS274 has the prerequisite of BIO181 or BIO181XT.)
Students selecting BIO181 or BIO181XT must complete with a grade of C or better:
RDG100 Successful College Reading + (3) OR
RDG100LL Disciplinary Literacy Lab + (1) OR
Higher level reading course (3) OR
Eligibility for CRE101, College Critical Reading and Critical Thinking, as indicated
by appropriate Reading placement test score.
One year of high school or one semester of college-level biology and chemistry is strongly recommended. 0-3

## Required Courses: 19 Credits

BIO105 Environmental Biology (4) OR
BIO181 General Biology (Majors) I + (4) OR
BIO181XT General Biology (Majors) I + (4) OR
ABS274 Introduction to Wildlife Management + (4) ............................................. 4
$\begin{array}{ll}\text { ECN211 } & \text { Macroeconomic Principles (3) OR } \\ \text { ECN212 } & \text { Microeconomic Principles (3).................................................................. } 3\end{array}$
PHI216 Environmental Ethics. ..... 3
POS110 American National Government .....  3
SSH111 Sustainable Cities ..... 3
SUS110 Sustainable World ..... 3
Restricted Electives: 6-8 Credits

ASB102
ASB222
ASB223
BIO108
CHM107 Chemistry and Society (3) ANDCHM107LL

ECN211 Macroeconomic Principles (Except if used for Required Courses area.)... 3
ECN212
FSC110
HIS190
POS285
RPM150ABIntroduction to Cultural Anthropology3
Buried Cities and Lost Tribes: Old World. ..... 3
Buried Cities and Lost Tribes: New World ..... 3
Plants and Society ..... 4
Chemistry and Society Laboratory (1) ..... 4
Macroeconomic Principles (Except if used for Required Courses area. ..... 3
Microeconomic Principles (Except if used for Required Courses area.) ..... 3
Wildland Firefighter ..... 3
Environmental History ..... 3
Political Issues and Public Policy ..... 3
Outdoor Adventure Skills ..... 3

## Visual and Performing Arts

CONTACT: Ms. C. Brandom

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char.brandom@phoenixcollege.edu


#### Abstract

Alteration Specialist Certificate of Completion - CCL 5556 19-27 Credits The Certificate of Completion (CCL) in Alteration Specialist is designed to prepare students for employment in alterations for the apparel industry. Students will develop skills in advanced clothing construction, tailoring and couture techniques appropriate for a variety of fabrics and designs, and fitting techniques for all types of apparel. They will develop the ability to select appropriate fashion fabrics, interfacing, and lining materials for specific items of apparel. Students completing this certificate will be able to alter and repair ready-made garments in entry level positions in the alteration profession for retailers, dry-cleaning industry or their own alteration establishment. An Associate in Applied Science (AAS) in Fashion Design is also available.


Program Notes: Students must earn a grade of C or better for all courses required within the program.
Admission Criteria: None.
Program Prerequisites: None.

| Required Courses: | 19-27 Credits |
| :--- | :--- |
| TEC110 | Beginning Apparel Construction (3) OR <br>  <br> Permission of Program Director .......................................................... 0-3 |

TEC111 Intermediate Apparel Construction + (3) OR
Permission of Program Director ..... 0-3

TEC122

Sewing with Knits +. ..... 3
TEC124 Advanced Apparel Construction + ..... 3
TEC129 Sewing with a Serger + ..... 3
TEC130 Alteration of Readymade Garments + . ..... 3
TEC222 Textiles ..... 3
TEC223 Tailoring + (3) OR
Couture Sewing + (3) ..... 3
TEC277++ Any Alteration Internship course + ..... 1-3
Restricted Electives: None.

CONTACT: Mr. E. Erspamer, Coordinator, Graphic Arts Studies:
(602) 285-7171

## Animation <br> Certificate of Completion - CCL 5169 <br> 40 Credits

The Certificate of Completion (CCL) in Animation develops knowledge and skills in the area of digital animation, including but not limited to the production of still and time-based media, animation techniques, narrative development, character design, compositing, motion graphics, and interactive design. The curriculum is designed to provide the student with an understanding of animation techniques, use of production equipment, animation terminology, media and interactivity applications, and industry practices. This certificate prepares students for employment and upgrades the skills of persons employed in occupations such as digital animators, media producers, storyboard artists, media artist/designers, and interaction designers. Certificates of Completion (CCL) in Video Game Production, and Associate in Applied Science (AAS) degrees in Animation and Time- Based Media and Video Game Production, are also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program. This CCL is designed for individuals who already have a degree or relevant experience in the field or who are currently employed in the field.

## Admission Criteria: None.

## Program Prerequisites: None.

Required Courses: 40 Credits
AVC169
2D Media Design + (3) OR
AVC178 Digital Arts Studies + (3)3
AVC177 Digital Photographic Imaging I + ..... 3
AVC/MMT184 Digital Animation I + ..... 3
AVC100 Introduction to Digital Arts. ..... 1
ART111 Drawing I. .....  3
ART116 Life Drawing I ..... 3
ART/COM/STO150 Digital Storytelling (3) OR
CRW172 Introduction to Comic Book Writing (3) OR
CRW176 Writing Narrative for Video Games (3) OR FMT121 Story Theory for Film, Television and Media (3) ..... 3
AVC170 3D Computer Design + (3) OR
AVC/THO246 Digital Fabrication (3) ..... 3
AVC/MMT185 3D Modeling and Animation I + ..... 3
AVC200 Animation and Interactivity + .....  3
AVC240 Cinematography and Directing for 2D/3D Animation + .....  3
AVC284 Digital Animation II +. ..... 3

| ART/MMT285 | Modeling and Animation II +................................................................................................................................................... |
| :--- | :--- |

## Restricted Electives: None.

CONTACT: Mr. E. Erspamer, Coordinator, Graphic Arts Studies:
(602) 285-7171 and/or
dana.belmonte@phoenixcollege.edu
Animation and Time-Based Media
Associate in Applied Science - AAS 3199

## 69-77 Credits

The Associate in Applied Science (AAS) in Animation and Time- Based Media is designed for the student who wishes to develop marketable skills in the area of digital animation and time-based media development. The program provides the student with an understanding of the equipment, operations, and knowledge of the terminology related to still image, video, and animation production. It allows for the exploration of personal interest in this area, prepares students for employment, and upgrades skills of those already employed in this field. Employment opportunities are included in video and multimedia fields, such as digital animator, media production, marketing, publishing, motion graphics, photography, storyboard artist, freelance artist designer, web and interactivity design, and multimedia artist/designer. A Certificate of Completion (CCL) in Animation and in Time-Based Media are also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program

## Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 17-19 Credits

AVC169 2D Media Design + (3) ORAVC178 Digital Arts Studies + (3)3
AVC177 Digital Photographic Imaging I + ..... 3
AVC/MMT184 Digital Animation I + ..... 3
AVC100 Introduction to Digital Arts. ..... 1
AVC248 Design Self Promotion (3) OR
ART255 Art Marketing (3) ..... 3
AVC280AC Digital Media Arts and Design Capstone + ..... 3
FYE101 Introduction to College, Career and Personal Success (1) OR
FYE103 Exploration of College, Career and Personal Success (3) ..... 1-3
Restricted Electives: 30 CreditsSpecialization 1: Digital Animation (30 credits)
ART111 Drawing I. .....  3
ART116 Life Drawing I ..... 3
ART/COM/STO150 Digital Storytelling (3) OR
CRW150 Introduction to Creative Writing (3) ORCRW172
CRW176Introduction to Comic Book Writing (3) ORFMT121
Writing Narrative for Video Games (3) ORStory Theory for Film, Television and Media (3)3
AVC170 3D Computer Design (3) OR AVC/THO246 Digital Fabrication (3) ..... 3
AVC/MMT185 3D Modeling and Animation I + ..... 3
AVC200 A nimation and Interactivity + ..... 3
AVC240 Cinematography and Directing for 2D/3D Animation + ..... 3
AVC284 Digital Animation II + ..... 3
AVC/MMT285 3D Modeling and Animation II + ..... 3
AVC287 3D Character Animation + ..... 3
Specialization 2: Time-Based Media (30 credits) ART111 Drawing I (3) OR
Life Drawing I (3) ..... 3
AVC142 Introduction to Digital Photography ..... 3
ART/COM/STO150 Digital Storytelling (3) OR
FMT121 Story Theory for Film, Television and Media (3) OR
JRN213 W riting for Online + (3) ..... 3
AVC202 Media Productions I + (3) OR
Video Production (3) .....  3
AVC279 Media Productions II + (3) OR
FMP215 Digital Video Effects + (3) ..... 3
MUC191 Electronic Music I (3) OR
Sound Design I (3) ..... 3
Complete twelve (12) credits from courses not already selected in the Required Courses area. Studentsmay choose from one emphasis or from among multiple emphasis areas according to their occupationalneeds.
Photography Emphasis
ART131 Photography I. ..... 3
AVC138 Commercial Photography I + ..... 3
AVC140 Portrait Photography + ..... 3
AVC143 Intermediate Digital Photography + .....  3
AVC270 Digital Photographic Imaging II + ..... 3
Audio Emphasis
FMP114 Audio Production + .....  3
MUC191 Electronic Music I .....  3
MUC192 Electronic Music II + .....  .3
MUC122 Sound Design I. ..... 3
MUC195 Studio Music Recording I .....  3
MUC222 Sound Design II + ..... 3
Media Production EmphasisART/COM/STO145 Digital Storybook1

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
AVC/MMT190 Art of Web Site Design+ .....  3
AVC192 Advanced Web Presentation Design + ..... 3
AVC/THO246 Digital Fabrication .....  3
CIS133DA Internet/ Web Development Level I .....  3
FMP204 Advanced Video Production + ..... 3
FMP215 Digital Video Effects + ..... 3
FMT151 TV and New Media Production + .....  3
Motion Graphics Emphasis
ART116 Life Drawing I .....  3
ART174 Electronic Color Principles + ..... 1
AVC/MMT185 3D Modeling and Animation I + .....  3
AVC200 Animation and Interactivity + ..... 3
AVC240 Cinematography and Directing for 2D/3D Animation + ..... 3
AVC273AC Special Topics: Multimedia Arts + .....  3
AVC287 3D Character Animation + ..... 3
FMP215 Digital Video Effects + .....  3
General Education Requirements: 22-28 CreditsCORE: 12-18 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) OR ENG108 First-Year Composition for ESL + (3) ..... 6
Oral Communication:
COM100 Introduction to Human Communication (3) OR
COM110 Interpersonal Communication (3) OR
COM225 Public Speaking + (3) OR
COM230 Small Group Communication (3) ..... 3
Critical Reading:
CRE101 College Critical Reading and Critical Thinking + (3) OR Equivalent as indicated by assessment ..... 0-3
Mathematics:
Any approved general education course from the Mathematics area ..... 3-6
Recommended for students planning to transfer to a four-year university:
MAT140 College Mathematics + (5) ORMAT141College Mathematics + (4) ORMAT142College Mathematics + (3) ORCollege Mathematics with Review (5) ORCollege Mathematics with Review (6)3-6
DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
ARH101 Art from Prehistory Through Middle Ages (3) ORARH102 Art from Renaissance to Modernism (3) OR
ARH115 History of Photography (3) ORHUM/ THF205 Introduction to Cinema (3) 3
Social-Behavioral Sciences:
Any approved general education course from the Social-Behavioral Sciences area. ..... 3
Natural Sciences:
Any approved general education course from the Natural Sciences area. ..... 4

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## Apparel Construction <br> Certificate of Completion - CCL 5953 <br> 26-32 Credits

The Certificate of Completion (CCL) in Apparel Construction is designed for students to learn advanced sewing techniques appropriate for custom apparel. Students will develop abilities to select appropriate materials and notions for specific items of apparel.

Program Notes: Students must earn a grade of C or better in all courses within the program.
Admission Criteria: None.
Program Prerequisites: None.

| Required Courses: | 26-32 Credits |
| :--- | :--- |
| TEC110 |  |
| Beginning Apparel Construction (3) OR |  |
| Permission of Program Director (0).................................................... $0-3$ |  |

## Restricted Electives: None.

CONTACT: Mr. J. Weddle, Coordinator, Commercial Music Studies: (602) 285-7555 and/or
dana.belmonte@phoenixcollege.edu

## Audio Production Technologies

## Associate in Applied Science - AAS 3024

## 62-71 Credits

The Associate in Applied Science (AAS) in Audio Production Technologies program offers students hands-on study of audio engineering and related media fields. Students learn and apply the concepts and theories associated with music recording, live sound reinforcement, and sound design. The program is designed to give students foundational knowledge and experience essential in the field of audio production. An embedded Certificate of Completion (CCL) in Audio Production Technologies is also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program.

## Admission Criteria: None.

Program Prerequisites: None.

## Required Courses: 31-34 Credits

In addition to the required course work, students must consult with a program advisor to select nine credits within the Restricted Electives area.

FYE101
FYE103
MTC101
MUC191
MUC192
MUC109
MUC110
MUC145
MUC111
MUC194
MUC195
MUC195AA
MUC196
MUC196AA

MUC297AA
MUC296WA
MUC298AA

Introduction to College, Career and Personal Success (1) OR
Exploration of College, Career and Personal Success (3)1-3
Introduction to Music Theory ..... 3
Electronic Music I. .....  3
Electronic Music II + .....  3
Music Business: Content Creation and Copyright ..... 3
Music Business: Marketing and Monetization (3) OR
Recording Studio Business Operations (2) ..... 2-3
Digital Audio Workstation I (DAW I) + ..... 3
Introduction to Audio Mixing Techniques +. ..... 3
Studio Music Recording I (3) ORStudio Music Recording I (3) 3
Studio Music Recording II + ORStudio Music Recording II + (3)3

MUC197
MUC197 Live Sound Reinforcement I ..... 3
Audio Production Internship + (1) ORCooperative Education + (1) ORSpecial Projects (1) .1
Restricted Electives: 9 Credits
Students must select a total of nine (9) credits from the list below in consultation with an academicadvisor. NOTE: at least one (1) of the following courses must be completed: MUC281, MUC289,MUC292, or MUC295.
MUC193 Computer-Based Sound Synthesis + ..... 3
MUC281 Electronic Music III + ..... 3
MUC112 Digital Audio Workstation II (DAW II) + ..... 3
MUC122 Sound Design I. ..... 3
MUC198 Live Sound Reinforcement II + ..... 3
MUC222 Sound Design II + ..... 3
MUC289 Live Sound Reinforcement III + ..... 3
MUC292 Sound Design III + ..... 3
MUC295 Studio Music Recording III + .....  3
General Education Requirements: 22-28 CreditsCORE: 12-18 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) AND ENG102 First-Year Composition + (3) OR
ENG111 Technical and Professional Writing + (3) ..... 6
Oral Communication:
COM100 Introduction to Human Communication (3) ORCOM110 Interpersonal Communication (3) OR
COM225 Public Speaking + (3) ORCOM230 Small Group Communication (3)3
COM110 is recommended.
Critical Reading: ..... CRE101
College Critical Reading and Critical Thinking + (3) OR equivalent as indicated by assessment ..... 0-3
Mathematics:Any approved general education course from the Mathematics area. Students who intend to transfermust take
MAT140
MAT141
MAT142
MAT145 College Mathematics with Review (5) OR
MAT146College Mathematics with Review (6)3-6
DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Any approved general education courses from the Humanities, Arts and Design area ..... 3
MHL140 or MHL145 or MHL153 are recommended.
Social-Behavioral Sciences:
Any approved general education course from the Social-Behavioral Sciences area ..... 3
PSY101 is recommended.
Natural Sciences:
Any approved general education course from the Natural Sciences area ..... 4

CONTACT: Mr. J. Weddle, Coordinator, Commercial Music Studies: (602) 285-7555

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Audio Production Technologies
Certificate of Completion - CCL 5334
39-40 Credits
The Certificate of Completion (CCL) in Audio Production Technologies program offers students handson study of audio engineering and related media fields. Students learn and apply the concepts and theories associated with music recording, live sound reinforcement, and sound design. The program is designed to give students foundational knowledge and experience essential in the field of audio production. An Associate in Applied Science (AAS) is also available.
```

Program Notes: Students must earn a grade of C or better in all courses within the program. + indicates course has prerequisite and/ or corequisites.

Admission Criteria: None.
Program Prerequisites: None.

## Required Courses: 30-31 Credits

In addition to the required course work, students must consult with a program advisor to select one of the specializations within the Restricted Electives area.
MTC101 Introduction to Music Theory ................................................................. 3
MUC191 Electronic Music I................................................................................... 3
MUC192 Electronic Music II + .............................................................................. 3
MUC109 Music Business: Content Creation and Copyright..................................... 3
$\begin{array}{ll}\text { MUC110 } & \text { Music Business: Marketing and Monetization (3) OR } \\ \text { MUC145 } & \text { Recording Studio Business Operations (2)............................................2-3 }\end{array}$
MUC111 Digital Audio Workstation I (DAW I) +.................................................. 3
MUC194 Introduction to Audio Mixing Techniques + ............................................ 3
$\begin{array}{ll}\text { MUC195 } & \text { Studio Music Recording I (3) OR } \\ \text { MUC195AA } & \text { Studio Music Recording I (3) ................................................................... } 3\end{array}$
$\begin{array}{ll}\text { MUC196 } & \text { Studio Music Recording II + OR } \\ \text { MUC196AA } & \text { Studio Music Recording II + (3)................................................................ } 3\end{array}$
MUC197 Live Sound Reinforcement I..................................................................... 3
$\begin{array}{ll}\text { MUC297AA } & \text { Audio Production Internship + (1) OR } \\ \text { MUC296WA } & \text { Cooperative Education + (1) OR } \\ \text { MUC298AA } & \text { Special Projects (1) ................................................................................. } 1\end{array}$

## Restricted Electives: 9 Credits

Students must select a total of nine (9) credits from the list below in consultation with an academic advisor. NOTE: at least one (1) of the following courses must be completed: MUC281, MUC289, MUC292, or MUC295.
MUC193 Computer-Based Sound Synthesis + $\qquad$

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

MUC281
MUC112
MUC122
MUC198
MUC222
MUC289
MUC292
MUC295
Electronic Music III + ..... 3
Digital Audio Workstation II (DAW II) + ..... 3
Sound Design I. ..... 3
Live Sound Reinforcement II + ..... 3
Sound Design II + .....  3
Live Sound Reinforcement III + ..... 3
Sound Design III +... ..... 3
Studio Music Recording III + ..... 3

CONTACT: Ms. J. Laffoon, Coordinator, Photography Studies:
(602) 285-7280


#### Abstract

Commercial and Freelance Photography Certificate of Completion - CCL 5784 35-36 Credits The Certificate of Completion (CCL) in Commercial and Freelance Photography includes the study of both the digital and film aspects of photography. The program is structured to help students develop an understanding of exposure principles, camera operations and functions, digital photographic materials, film-based strategies, studio lighting, and the basics of running a freelance photography business. This certificate is designed to provide knowledge and experience important to those hoping to work as freelance photographers, wedding photographers, commercial photographers, photography editors, photography assistants, or photo lab technicians. An Associate in Applied Science (AAS) in Photography is also available.


Program Notes: Students must earn a grade of C or better for all courses required within the program. There will be costs for supplies and equipment in this program.
Admission Criteria: None
Program Prerequisites: None
Required Courses: 27 Credits
AVC100 Introduction to Digital Arts ..... 1
ART112 Two-Dimensional Design ..... 3
ART131 Photography I ..... 3
ART132 Photography II + .....  3
AVC138 Commercial Photography I + ..... 3
AVC140 Portrait Photography + (3) OR
AVC237 Fashion Photography + (3) ..... 3
AVC142 Introduction to Digital Photography ..... 3
AVC143 Intermediate Digital Photography + ..... 3
ENG101 First-Year Composition + (3) OR
First-Year Composition for ESL + (3) ..... 3
SBS200 Small Business Operations ..... 2
Restricted Electives: 8-9 CreditsStudents must complete one of the two following specializations:
Specialization I: Freelance Photography (8 credits)
SBS204 Small Business Marketing and Advertising .2

In consultation with an advisor or program coordinator, choose two (2) courses from the following list to best fulfill goals:

```
ARH115History of Photography 3
+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
```

| ART116 | Life Drawing I | 3 |
| :---: | :---: | :---: |
| ART137 | Alternative Photographic Processes | 3 |
| AVC139 | Commercial Photography II + . | 3 |
| AVC181 | Graphic Design I +.......... | 3 |
| ART234 | Color Photography + | 3 |
| ART255 | Art Marketing | 3 |
| FMP108 | Video Production | 3 |
| Specialization II: Commercial Photography (8-9 credits) |  |  |
| AVC139 | Commercial Photography II + | 3 |
| ART234 | Color Photography + . | . 3 |

In consultation with an advisor or program coordinator, choose one (1) course from the following list to best fulfill goals:
ARH115 History of Photography. .....  .3
ART116 Life Drawing I .....  .3
ART137 Alternative Photographic Processes .....  3
AVC181 Graphic Design I +. .....  3
ART255 Art Marketing ..... 3
FMP108 Video Production ..... 3
SBS204 Small Business Marketing and Advertising ..... 2

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## Costume Design and Production, Level I <br> Certificate of Completion - CCL 5406 <br> 28-34 Credits

The Certificate of Completion (CCL) in Costume Design and Production, Level I trains students to design and make costumes for theatre, film, opera, dance and period reproductions. A Certificate of Completion (CCL) in Costume Design and Production, Level II and an Associate in Applied Science (AAS) in Fashion Design are also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program.
Admission Criteria: None.
Program Prerequisites: None.

## Required Courses: 25-31 Credits

| TEC105 | Cultural Aspects of Clothing (3) OR |
| :--- | :--- |
| THF115 | Makeup for Stage and Screen (3).............................................................. 3 |

TEC106 History of Fashion................................................................................... 3
$\begin{array}{ll}\text { TEC110 } & \begin{array}{l}\text { Beginning Apparel Construction (3) OR } \\ \text { Permission of Program Director .......................................................... 0-3 }\end{array}\end{array}$

| TEC111 | Intermediate Apparel Construction + (3) OR |
| :--- | :--- |
| THP206 | Introduction to Costume Construction for Theatre (4)...........................3-4 |


| TEC120 | Specialty Apparel Construction + (3) OR |
| :--- | :--- |
| TEC124 | Advanced Apparel Construction + (3) OR |
| TEC227 | Couture Sewing + (3)............................................................................ 3 |

TEC122 Sewing with Knits +............................................................................. 3
TEC134
Fashion Illustration I 3

TEC225

Pattern Design I + ..... 3
TEC226 Draping for Fashion Design + ..... 3
TEC278++ Any Costume Design and Production Internship course(s) (1-3) OR
THP201++ Any Theatre Production course(s) (1-2) OR
THO202AC Theatre Production I Costume Shop (1) ..... 1-3
Restricted Electives: 3 Credits
TEC113 Textiles: Dyeing..................................................................................... 1
TEC114 Textiles: Block Printing/Silk Screening.................................................... 1
TEC115 Textiles: Hand Painting ........................................................................... 1
TEC116 Textiles: Stitchery and Embellishment..................................................... 1
TEC121 Creative Sewing Machine Use + .............................................................. 3
TEC161 Digital Machine Embroidery Laboratory.................................................. 1
TEC222 Textiles.................................................................................................... 3
Note: TEC113, TEC114, TEC115, TEC116, TEC161 may be repeated for up to three (3) credits.

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## Costume Design and Production, Level II <br> Certificate of Completion - CCL 5426 <br> 36-42 Credits

The Certificate of Completion (CCL) in Costume Design and Production, Level II expands students' skills in costuming for theatre, film, opera, dance and period reproductions. Students learn enhanced techniques for costume fit and construction, twentieth-century design, and digital fashion illustration.

Program Notes: + indicates course has prerequisites and/or corequisites. Students must earn a grade of C or better in all courses within the program.

## Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 33-39 Credits

The following courses are required and included in CCL Costume Design and Production, Level I: TEC105 Cultural Aspects of Clothing (3) OR
THF115 Makeup for Stage and Screen (3)............................................................. 3
TEC106 History of Fashion................................................................................. 3
$\begin{array}{ll}\text { TEC110 } & \begin{array}{l}\text { Beginning Apparel Construction (3) OR } \\ \text { Permission of Program Director ........................................................... 0-3 }\end{array}\end{array}$

| TEC111 | Intermediate Apparel Construction + (3) OR |
| :--- | :--- |
| THP206 | Introduction to Costume Construction for Theatre (4).......................... 3-4 |


| TEC120 | Specialty Apparel Construction + (3) OR |
| :--- | :--- |
| TEC124 | Advanced Apparel Construction + (3) OR |
| TEC227 | Couture Sewing + (3)........................................................................... 3 |

TEC122 Sewing with Knits +............................................................................... 3
TEC134 Fashion Illustration I............................................................................... 3
TEC225 Pattern Design I +.................................................................................. 3
TEC226 Draping for Fashion Design + ................................................................. 3

| TEC278++ | Any Costume Design and Production Internship course(s) (1-3) OR |
| :--- | :--- |
| THP201++ | Any Theatre Production course(s) (1-2) OR |
| THO202AC | Theatre Production I Costume Shop (1)...............................................1-3 |

The following courses are required and included in CCL Costume and Design Production, Level II:
TEC112AQ Pattern Alteration and Fit + ...................................................................... 2
TEC232 Costume Construction +.......................................................................... 3
TEC234 Vintage Fashion Design + ...................................................................... 3
Restricted Electives: 3 Credits
TEC113 Textiles: Dyeing..................................................................................... 1
TEC114 Textiles: Block Printing/Silk Screening.................................................... 1
TEC115 Textiles: Hand Painting ........................................................................... 1
TEC116 Textiles: Stitchery and Embellishment..................................................... 1
TEC121 Creative Sewing Machine Use + .............................................................. 3
TEC161 Digital Machine Embroidery Laboratory.................................................. 1
TEC222 Textiles.................................................................................................... 3
Note: TEC113, TEC114, TEC115, TEC116, TEC161 may be repeated for up to three (3) credits.

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## Digital Media Arts <br> Associate in Applied Science - AAS 3567 <br> 66-74 Credits

The Associate in Applied Science (AAS) in Digital Media Arts is designed for the student who wishes to develop skills in the area of graphic design, imaging, photography, animation, time-based, interactivity, and media production. The program emphasizes critical thinking, written communication, and teamwork by challenging students to develop their own design method, production workflow, and conceptual aesthetic. The program provides students with a broad understanding of media design and its place in society as a means to communicate. It allows for the development of an individual's personal interest in this area, prepares students for employment, and upgrades skills of those already employed in this field. Upon completion of the program, students will have compiled a professional portfolio. Employment opportunities include, but are not limited to, graphic design, animation, web design, and video production. Based on course selections, students may also pursue transfer opportunities.

Program Notes: Students must earn a grade of C or better in all courses within the program
Admission Criteria: None.
Program Prerequisites: None.

AVC240 Cinematography and Directing for 2D/3D Animation + ..... 3
CIS133DA Internet/ Web Development Level I ..... 3
FMP108 Video Production .....  3
FMP215 Digital Video Effects + .....  3
MUC191 Electronic Music I .....  3
MUC122 Sound Design I. ..... 3
General Education Requirements: 22-28 Credits
CORE: 12-18 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) AND
First-Year Composition + (3) OR ENG102
First-Year Composition for ESL + (3) ..... 6
Oral Communication:
COM100 Introduction to Human Communication (3) ORCOM110 Interpersonal Communication (3) OR
COM225 Public Speaking + (3) OR
COM230 Small Group Communication (3) 3
Critical Reading:CRE101College Critical Reading and Critical Thinking + (3) OREquivalent as indicated by assessment0-3
Mathematics:
Any approved general education course from the Mathematics area ..... 3-6
Recommended for students planning to transfer to a four-year university:
MAT140 College Mathematics + (5) ORMAT141 College Mathematics + (4) OR
MAT142 College Mathematics + (3) OR
MAT145 College Mathematics with Review (5) ORMAT146College Mathematics with Review (6)3-6
DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Students who intend to transfer should choose either ARH102 or HUM/ THF205 to fulfill the [HU]requirement for transfer.
ARH102 Art from Renaissance to Modernism (3) OR
ARH110 History of Graphic Design (3) OR ..... 3
Social-Behavioral Sciences:
Any approved general education course from the Social-Behavioral Sciences area ..... 3
Natural Sciences:
Any approved general education course from the Natural Sciences area ..... 4

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## Fashion Design

Associate in Applied Science - AAS 3355

## 63-74 Credits

The Associate in Applied Science (AAS) in Fashion Design guides students in developing technical and creative design skills for employment opportunities in the fashion industry or self-employment in fashion design. The program includes training in multiple levels of apparel construction, design, fashion illustration, patternmaking, and draping, and supports students in building inspirational sources through analysis of cultural, historical, and contemporary works of fashion and design.

Program Notes: Students must earn a grade of C or better in all courses within the program.
Admission Criteria: None.

## Program Prerequisites: None.

| Required Courses: | 38-43 Credits |
| :--- | :--- |
| FYE101 | Introduction to College, Career and Personal Success (1) OR |
| FYE103 | Exploration of College, Career and Personal Success (3) ......................1-3 |

TEC105 Cultural Aspects of Clothing ................................................................... 3
TEC106 History of Fashion.................................................................................. 3
TEC110 Beginning Apparel Construction (3) OR Permission of Program Director (0).................................................... 0-3

TEC111 Intermediate Apparel Construction + ...................................................... 3
TEC122 Sewing with Knits +................................................................................ 3
TEC124 Advanced Apparel Construction +........................................................... 3
TEC125 Fashion Design ....................................................................................... 3
TEC134 Fashion Illustration I................................................................................ 3
TEC221 Computer-Assisted Fashion Design +..................................................... 3
TEC222 Textiles .................................................................................................... 3
TEC223 Tailoring ................................................................................................. 3
TEC225 Pattern Design I +................................................................................... 3
TEC226 Draping for Fashion Design + ................................................................ 3
TEC236 Portfolio Development + (1) OR
TEC271AA Fashion Design Internship (1) OR
TEC277AA Alteration Internship (1) OR
TEC278AA Costume Design and Production Internship (1)
.1
Restricted Electives: 4-6 Credits
Select 4 to 6 credits from the following except courses used in the Required Courses area:
ART113 Color....................................................................................................... 3
TEC+++++ Any TEC Textiles and Clothing course.................................................1-3

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

General Education: 22-28 Credits
CORE: 12-18 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) OR
ENG108 First-Year Composition for ESL + (3) ..................................................... 6
Oral Communication:
COM100 Introduction to Human Communication (3) OR
COM110 Interpersonal Communication (3) OR
COM225 Public Speaking + (3) OR
COM230 Small Group Communication (3)............................................................. 3
Critical Reading:
CRE101 College Critical Reading and Critical Thinking + (3) OR
Equivalent as indicated by assessment (0)........................................... 0-3
Mathematics:
MAT140 College Mathematics + (5) OR
MAT141 College Mathematics + (4) OR
MAT142 College Mathematics + (3) OR
MAT146 College Mathematics with Review (6) OR
Equivalent or higher-level mathematics course in the Mathematical
Applications [MA] area (3-6). .............................................................3-6
DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
ARH100 Introduction to Art (3) OR
ARH101 Art from Prehistory Through Middle Ages (3) OR
ARH102 Art from Renaissance to Modernism (3) OR
INT115 Historical Architecture and Furniture (3) OR
INT120 Modern Architecture and Furniture (3) 3

ARH100, ARH101, or ARH102 recommended for university transfer.
Social-Behavioral Sciences:
Any approved general education course in the Social-Behavioral Sciences area.3

Natural Sciences:
Any approved general education course from the Natural Sciences area

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char.brandom@phoenixcollege.edu

## Fashion Design: Entrepreneur <br> Certificate of Completion - CCL 5854 <br> 19 Credits

The Certificate of Completion (CCL) in Fashion Design: Entrepreneur introduces students to building a sustainable fashion design business. Students develop business and industry-specific skills based upon fashion marketing, merchandising, and production.

Program Notes: Students must earn a grade of C or better in all courses required within the program.
Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 19 Credits
MKT109 Introduction to Fashion Merchandising.................................................... 3
MKT110 Marketing and Social Networking (3) OR
MKT151 Display and Visual Merchandising (3)
MKT267 Principles of Sales ................................................................................... 3
TEC103 Developing Your Fashion Business ......................................................... 2
TEC125 Fashion Design ........................................................................................ 3
TEC150 Fashion Show Production......................................................................... 3
TEC240
Apparel Production Management............................................................. 2
Restricted Electives: None.

CONTACT: Ms. C. Brandom
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## Fashion Design: Level I <br> Certificate of Completion - CCL 5355 <br> 27-30 Credits

The Certificate of Completion (CCL) in Fashion Design: Level I includes training in design, fashion illustration, patternmaking, and draping, and supports students in building inspirational sources through analysis of cultural, historical, and contemporary fashion and design. Students completing this certificate will enter the fashion industry at entry-level positions. A Certificate of Completion (CCL) in Fashion Design: Level II and an Associate in Applied Science (AAS) in Fashion Design are also available.

Program Notes: Students must earn a grade of C or better in all courses within the program.
Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 27-30 Credits
TEC105 Cultural Aspects of Clothing ..... 3
TEC106 History of Fashion ..... 3
TEC110 Beginning Apparel Construction (3) OR Permission of Program Director (0) ..... 0-3
TEC111 Intermediate Apparel Construction + ..... 3
TEC125 Fashion Design ..... 3
TEC134 Fashion Illustration I .....  3
TEC221 Computer-Assisted Fashion Design + ..... 3
TEC222 Textiles ..... 3
TEC225 Pattern Design I + ..... 3
TEC226 Draping for Fashion Design + ..... 3

Restricted Electives: None.

CONTACT: Ms. C. Brandom
(602) 285.7287 or
char.brandom@phoenixcollege.edu

## Fashion Design, Level II <br> Certificate of Completion - CCL 5939 <br> 42-45 Credits

The Certificate of Completion (CCL) in Fashion Design: Level II program provides students with more advanced skills necessary to design apparel, illustrate fashions, and create patterns. Students completing this certificate will enter the fashion industry at entry- level positions and above. An Associate in Applied Sciences (AAS) in Fashion Design is also available.

Program Notes: Students must earn a grade of C or better in all courses within the program.
Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 42-45 Credits

The following courses are required and included in CCL Fashion Design Level I:
TEC105 Cultural Aspects of Clothing .3
TEC106 History of Fashion................................................................................... 3
TEC110 Beginning Apparel Construction (3) OR Permission of Program Director (0)0-3
TEC111 Intermediate Apparel Construction + ..... 3
TEC125 Fashion Design ..... 3
TEC134 Fashion Illustration I .....  3
TEC221 Computer-Assisted Fashion Design + ..... 3
TEC222 Textiles ..... 3
TEC225 Pattern Design I + .....  3
TEC226 Draping for Fashion Design + ..... 3
The following courses are also required for CCL Fashion Design Level II: ..... TEC135
Fashion Illustration II + (3) OR
Fashion Illustration: Menswear + (3) ..... 3
TEC227 Couture Sewing + (3) OR
TEC234 Vintage Fashion Design + (3) ..... 3
TEC228 Advanced Draping for Fashion Design + ..... 3
TEC230 Pattern Design II + .....  3
TEC270 Design Studio + .....  3

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## Fashion Illustration

Certificate of Completion - CCL 5941

## 26 Credits

The Certificate of Completion (CCL) in Fashion Illustration includes an advanced study of proportion and techniques used in drawing fashion figures and flats. Various art supplies are used to illustrate fabrics, textures, and patterns. An Associate in Applied Science (AAS) in Fashion Design is also available.

Program Notes: Students must earn a grade of C or better in all courses required within the program.
Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 26 Credits
TEC115 Textiles: Hand Painting ........................................................................... 1
TEC125 Fashion Design ....................................................................................... 3
TEC134 Fashion Illustration I............................................................................... 3
TEC135 Fashion Illustration II +........................................................................... 3
TEC136 Fashion Illustration III +........................................................................... 3
TEC138 Fashion Illustration: Menswear................................................................. 3
TEC139
Fashion Illustration: Children's Wear........................................................ 3
TEC221 Computer-Assisted Fashion Design + ...................................................... 3
TEC222 Textiles................................................................................................... 3
TEC236 Portfolio Development + .......................................................................... 1
Restricted Electives: None.

CONTACT: Mr. E. Erspamer, Coordinator, Graphic Arts Studies:
(602) 285-7171 and/or
dana.belmonte@phoenixcollege.edu

## Graphic Design <br> Associate in Applied Science - AAS 3201 <br> 61-68 Credits

The Associate in Applied Science (AAS) in Graphic Design develops the knowledge and skills required in the areas of photography, digital imaging, and graphic design. The coursework includes creating graphic designs, including images, layouts, typography, packaging, motion and interactive graphics, and branding in various print and digital media. This degree prepares students for employment and upgrades the skills of persons employed in occupations such as production artists, graphic designers, freelance artist-designers, and art directors. A Certificate of Completion (CCL) in Graphic Design is also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program.

## Admission Criteria: None.

## Program Prerequisites: None.

Required Courses: 33-37 Credits
AVC169 2D Media Design + ..... 3
AVC177 Digital Photographic Imaging I + ..... 3
AVC183 Digital Graphic Arts I ..... 3
AVC248 Design Self Promotion (3) OR
Art Marketing (3) ..... 3
AVC283 Digital Graphic Arts II + ..... 3
AVC100 Introduction to Digital Arts. ..... 1
ART111 Drawing I (3) ORART116 Life Drawing I (3)3
ART113
AVC114
Color (3) OR
Digital Color (3) ..... 3
AVC142 Introduction to Digital Photography ..... 3
AVC178 Digital Arts Studies + ..... 3
AVC/MMT190
CIS133DA
Art of Web Site Design (3) OR
Internet/ Web Development Level I (3) ..... 3
FYE101 Introduction to College, Career and Personal Success (1) OR Exploration of College, Career and Personal Success (3) ..... 1-3

| Capstone/Internship Course: |  |
| :--- | :--- |
| AVC280AA | Digital Media Arts and Design Capstone + (1) OR |
| AVC280AB | Digital Media Arts and Design Capstone + (2) OR |
| AVC280AC | Digital Media Arts and Design Capstone + (3) .......................................1-3 |

Restricted Electives: 3 Credits
Students must select three (3) credits from the following list of courses:
AVC175 Electronic Publishing Design I +............................................................ 3
AVC289 Computer Illustration + ........................................................................... 3
ART103 Typography in the Digital Age +............................................................. 3
ART/COM/STO150 Digital Storytelling + ............................................................................... 3
AVC192 Advanced Web Presentation Design +..................................................... 3
AVC200 Animation and Interactivity +.................................................................. 3
AVC210 Design Tools for Imagery, Production, and Publishing +.......................... 3
AVC/THO246 Digital Fabrication.................................................................................. 3
General Electives: 0-3 Credits
Select additional courses 100-level or higher to complete the minimum credits required for this degree. Consult with the Program Director or an Academic Advisor.
General Education Requirements: 22-28 Credits
CORE: 12-18 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) OR
ENG108 First-Year Composition for ESL + (3) ...................................................... 6
Oral Communication:
COM100 Introduction to Human Communication (3) OR
COM110 Interpersonal Communication (3) OR
COM225 Public Speaking + (3) OR
COM230 Small Group Communication (3)............................................................. 3
Critical Reading:
CRE101
College Critical Reading and Critical Thinking + (3) OR
Equivalent as indicated by assessment.0-3
Mathematics:
Any approved general education course from the Mathematics area3-6
Recommended for students planning to transfer to a four-year university:

MAT140
MAT141
MAT142
MAT145
MAT146

College Mathematics + (5) OR
College Mathematics + (4) OR
College Mathematics + (3) OR
College Mathematics with Review (5) OR
College Mathematics with Review (6)3-6

DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Students who intend to transfer should choose either ARH101 or ARH102 to fulfill the [HU] requirement for transfer.
$\begin{array}{ll}\text { ARH101 } & \text { Art from Prehistory Through Middle Ages (3) OR } \\ \text { ARH102 } & \text { Art from Renaissance to Modernism (3) OR } \\ \text { ARH110 } & \text { History of Graphic Design (3) .................................................................. } 3\end{array}$
Social-Behavioral Sciences:
Any approved general education course from the Social-Behavioral Sciences area .3
Natural Sciences:
Any approved general education course from the Natural Sciences area 4

CONTACT: Mr. E. Erspamer, Coordinator, Graphic Arts Studies: (602) 285-7171 and/or dana.belmonte @phoenixcollege.edu

## Graphic Design <br> Certificate of Completion - CCL 5173 <br> 34 Credits

The Certificate of Completion (CCL) in Graphic Design develops the knowledge and skills required to create graphic designs, including images, layouts, typography, packaging, motion and interactive graphics, and branding in various print and digital media. This certificate prepares students for employment and upgrades the skills of persons employed in occupations such as production artists, graphic designers, and art directors. An Associate in Applied Science (AAS) in Graphic Design is also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program

## Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 31 Credits

AVC169 2D Media Design +................................................................................ 3
AVC177 Digital Photographic Imaging I +............................................................ 3
AVC183 Digital Graphic Arts I.............................................................................. 3

| AVC248 | Design Self Promotion (3) OR |
| :--- | :--- |
| ART255 | Art Marketing (3).................................................................................... 3 |

AVC283 Digital Graphic Arts II +......................................................................... 3
AVC100 Introduction to Digital Arts...................................................................... 1
$\begin{array}{ll}\text { ART111 } & \text { Drawing I (3) OR } \\ \text { ART116 } & \text { Life Drawing I (3)...................................................................................... } 3\end{array}$

| ART113 | Color (3) OR |
| :--- | :--- |
| AVC114 | Digital Color (3)...................................................................................... 3 |

AVC142 Introduction to Digital Photography......................................................... 3
AVC178 Digital Arts Studies +.............................................................................. 3
$\begin{array}{ll}\text { AVC/MMT190 } & \text { Art of Web Site Design (3) OR } \\ \text { CIS133DA } & \text { Internet/Web Development Level I (3)..................................................... } 3\end{array}$
Restricted Electives: 3 Credits
Students must select 3 credits from the following list of courses:
AVC175 Electronic Publishing Design I +............................................................. 3
AVC289 Computer Illustration + ........................................................................... 3
ART103 Typography in the Digital Age +............................................................. 3
ART/COM/STO150 Digital Storytelling + ............................................................................... 3
AVC192 Advanced Web Presentation Design +..................................................... 3

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

| AVC200 | Animation and Interactivity |
| :---: | :---: |
| AVC210 | Design Tools for Imagery, Production, and Publishing +... |
| AVC/THO246 | Digital Fabrication. |

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
CONTACT: Mr. E. Erspamer, Coordinator, Graphic Arts Studies:
(602) 285-7171 and/ordana.belmonte@phoenixcollege.edu
Illustration
Certificate of Completion - CCL 5174 31 CreditsThe Certificate of Completion (CCL) in Illustration develops knowledge and skills in creating visualnarratives through traditional and digital media. The program emphasizes art principles, knowledge, andskills needed to solve design and compositional problems. Focus areas include graphic arts, publications,and storyboarding for animation, video, and media. This certificate prepares students for employmentand upgrades the skills of persons employed in occupations such as freelance artist-designer, conceptartist, visual development artist for gaming/film, and storyboarder. Students may also pursue anAssociate in Applied Science (AAS) in Illustration and Sequential Art.
Program Notes: Students must earn a grade of C or better for all courses required within the program.
Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 25 Credits
AVC169 2D Media Design + ..... 3
AVC177 Digital Photographic Imaging I + ..... 3
AVC248 Design Self Promotion (3) OR
ART255 Art Marketing (3) ..... 3
AVC289 Computer Illustration + ..... 3
AVC100 Introduction to Digital Arts. ..... 1
ART111 Drawing I. ..... 3
ART113 Color (3) OR
AVC114 Digital Color (3) ..... 3
ART116 Life Drawing I .....  3
AVC178 Digital Arts Studies + ..... 3
Restricted Electives: 6 Credits
Students must select six (6) credits from the following list of courses. Students may select from oneemphasis or may select from different emphases to fulfill the six (6) credit requirement.
Animation Focus Area
AVC/MMT184 $\quad$ Digital Animation I + .....  3
AVC/MMT185 3D Modeling and Animation I + ..... 3
Drawing Focus Area
ART117Life Drawing II + 3
ART118 Art Anatomy + ..... 3
ART122 Drawing and Composition II + .....  3
+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
Painting Focus Area

ART165
ART166
ART167
ART168
ART263

Watercolor Painting I +3
Watercolor Painting II + . .....  3
Painting I + ..... 3
Painting II + ..... 3
Figure Painting + ..... 3

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## Illustration and Sequential Art

## Associate in Applied Science - AAS 3203 <br> 61-74 Credits

The Associate in Applied Science (AAS) in Illustration and Sequential Art is designed for the student who wishes to develop an area of specialization in illustration and comics and sequential art. Students will develop narratives through traditional and digital media. The program emphasizes art principles, knowledge, and skills needed to solve design and compositional problems. Areas of emphasis include comic book and sequential art, illustration for publications, and storyboarding. It allows for the development of an individual's personal interest in this area, prepares students for employment, and upgrades skills of those already employed in this field. Employment opportunities are available in a variety of fields including, but not limited to, freelance artist-designer, concept artist, comics/sequential art, visual development artist for gaming/film, and story boarder. A Certificate of Completion (CCL) in Illustration and in Sequential Art is also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program.
Admission Criteria: None.

## Program Prerequisites: None.

Required Courses: 24-28 Credits
AVC169 2D Media Design + ..... 3
AVC177 Digital Photographic Imaging I + ..... 3
AVC289 Computer Illustration + .....  3
AVC100 Introduction to Digital Arts. ..... 1
ART111 Drawing I .....  3
ART113 Color (3) OR
AVC114 Digital Color (3) ..... 3
ART116 Life Drawing I ..... 3
AVC178 Digital Arts Studies +. ..... 3
FYE101 Introduction to College, Career and Personal Success (1) OR ..... FYE103
Exploration of College, Career and Personal Success (3) ..... 1-3
Capstone/Internship Course:
AVC280AA Digital Media Arts and Design Capstone + (1) OR
AVC280AB Digital Media Arts and Design Capstone + (2) OR AVC280AC Digital Media Arts and Design Capstone + (3) ..... 1-3
Restricted Electives: 9-18 CreditsSpecialization 1: Sequential Art (18 credits)
AVC119 Penciling for Sequential Art .....  3
AVC120 Inking for Sequential Art. ..... 3
AVC219 Coloring, Toning and Lettering for Sequential Art. ..... 3
AVC220 Publishing for the Comic Industry ..... 3
AVC221 Comics Creation ..... 3
CRW172 Introduction to Comic Book Writing (3) OR
CRW176 Writing Narrative for Video Games (3) OR CRW190 Introduction to Screenwriting (3) ..... 3
Specialization 2: Illustration (9 credits)
AVC248 Design Self Promotion (3) OR
ART255 Art Marketing (3) ..... 3
Students must select six (6) credits from the following list of courses. Students may select from oneemphasis or may select from different emphases to fulfill the six (6) credit requirement.
Animation Emphasis
AVC/MMT184 Digital Animation I + ..... 3
AVC/MMT185 3D Modeling and Animation I + .....  3
Drawing Emphasis
ART117 Life Drawing II + ..... 3
ART118 Art Anatomy + ..... 3
ART122 Drawing and Composition II + .....  3
Painting Emphasis
ART165 Watercolor Painting I + ..... 3
ART166 Watercolor Painting II + ..... 3
ART167 Painting I + .....  3
ART168 Painting II + ..... 3
ART263 Figure Painting + ..... 3
General Electives: 0-6 CreditsSelect additional courses 100-level or higher to complete the minimum credits required for this degree.Consult with the Program Director or an Academic Advisor.
General Education Requirements: 22-28 Credits
CORE: 12-18 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) AND
ENG102 First-Year Composition + (3) OR
ENG108 First-Year Composition for ESL + (3) ..... 6
Oral Communication:
COM100 Introduction to Human Communication (3) ORCOM110 Interpersonal Communication (3) OR
COM225 Public Speaking + (3) ORCOM230 Small Group Communication (3)3
Critical Reading:CRE101College Critical Reading and Critical Thinking + (3) OREquivalent as indicated by assessment.0-3

## Mathematics:

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

Any approved general education course from the Mathematics area3-6

Recommended for students planning to transfer to a four-year university:
MAT140
MAT141
MAT142
MAT145
MAT146
College Mathematics + (5) OR
College Mathematics + (4) OR
College Mathematics + (3) OR
College Mathematics with Review (5) OR College Mathematics with Review (6) 3-6

## DISTRIBUTION: 10 Credits

Humanities, Arts and Design:
ARH101
Art from Prehistory Through Middle Ages (3) OR
ARH102
Art from Renaissance to Modernism (3)3

## Social-Behavioral Sciences:

Any approved general education course from the Social-Behavioral Sciences area .3

## Natural Sciences:

Any approved general education course from the Natural Sciences area 4

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## Industrial Sewing <br> Certificate of Completion - CCL 5970 <br> 30-37 Credits

The Certificate of Completion (CCL) in Industrial Sewing is designed to prepare students for employment or small business ownership in piecework construction for garment manufacturing in the fashion industry including but not limited to advanced apparel construction methods using a variety of fabrics and materials, knowledge of and skills on the use of industrial machines, and professional sewing techniques.

Program Notes: Students must earn a grade of C or better in each course in the program. Students are encouraged to consult with the Program Director before starting the program.

## Admission Criteria: None.

## Program Prerequisites: None.

Required Courses: 30-37 Credits
TEC110 Beginning Apparel Construction (3) OR
Permission of Program Director (0).......................................................................................0-3

| TEC111 | Intermediate Apparel Construction + (3) OR |
| :--- | :--- |
| THP206 | Introduction to Costume Construction for Theatre (4) OR |
| Permission of Program Director (0) ................................................................................ 0-4 |  |

TEC120 Specialty Apparel Construction + .......................................................... 3
TEC122 Sewing with Knits +................................................................................ 3
TEC124 Advanced Apparel Construction +........................................................... 3
TEC129 Sewing with a Serger............................................................................... 3
TEC130 Alteration of Ready-Made Garments + .................................................... 3
TEC143 Industrial Sewing I +.............................................................................. 2
TEC144 Industrial Sewing II + ............................................................................ 2
TEC146 Manufacturing Sewing Methods I +......................................................... 2
TEC147 Manufacturing Sewing Methods II +......................................................... 2
TEC112AQ Pattern Alteration and Fit + .................................................................... 2
TEC116 Textiles: Stitchery and Embellishment..................................................... 1
TEC120 Specialty Apparel Construction + ........................................................... 3
TEC122 Sewing with Knits +................................................................................ 3
TEC124 Advanced Apparel Construction +........................................................... 3
TEC129 Sewing with a Serger............................................................................... 3
TEC143 Industrial Sewing I +.............................................................................. 2
TEC222 Textiles................................................................................................... 3
TEC223 Tailoring +............................................................................................... 3
TEC227 Couture Sewing + .................................................................................. 3
In consultation with the program director, select 6 credits of coursework from the following:
INT/TEC126 Sewing for the Home.

| TEC112AU | Sewing Clothing Accessories + | 3 |
| :---: | :---: | :---: |
| TEC121 | Creative Sewing Machine Use + . |  |
| TEC161 | Digital Machine Embroidery Laboratory. |  |
| TEC224 | Pattern Drafting + (2) OR |  |
| TEC225 | Pattern Design I + (3) OR |  |
| TEC226 | Draping for Fashion Design + (3) | 2-3 |
| TEC232 | Costume Construction + . | 3 |
| TEC233 | Computer-Assisted Pattern Making + . |  |
| TEC240 | Apparel Production Management +... | 2 |

## Restricted Electives: None.

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## Interior Design

Associate in Applied Science - AAS 3191

## 65-73 Credits

The Associate in Applied Science (AAS) in Interior Design prepares students to work in an entry-level interior design position. The program provides both general and interior design education, which includes design, color theory and application, architectural and furniture history, drafting and computer aided design (CAD) for interior design, space planning, interior materials, rendering, and basic codes and regulations. Studio projects allow students to identify, research, solve, and present design problems. Certificates of Completion (CCL) in areas of specialization are also available and embedded within the AAS.

The AAS in Interior Design transfers to Northern Arizona University Bachelor of Science (BS) in Interior Design. NAU will accept up to 73 credits as part of this degree program. Please speak with an NAU transfer specialist for details about this transfer option.

Program Notes: Students must earn a grade of C or better for all courses required within the program.

## Admission Criteria: None.

## Program Prerequisites: None.

Required Courses: 46-48 Credits
ARC141 Architectural CAD I: Introduction (3) AND
ARC142 Architectural CAD II: Plans and Elevations + (3) OR
INT100 Interior Design Drafting (3) AND
INT140 Introduction to CAD for Interior Design (3)............................................. 6
FYE101 Introduction to College, Career and Personal Success (1) OR
FYE103 Exploration of College, Career and Personal Success (3).......................1-3
INT105 Introduction to Interior Design ................................................................ 3
INT115 Historical Architecture and Furniture....................................................... 3
INT120 Modern Architecture and Furniture.......................................................... 3
INT122 Digital Visualization for Design .............................................................. 3
INT145 Drawing and Rendering (3) OR
INT145AA Sketching and Visualization + (1.5) AND
INT145AB Rendering + (1.5)................................................................................... 3
INT150 Color and Design .................................................................................... 3
INT160 Fabrics for Interiors................................................................................. 3
INT175 Custom Design +..................................................................................... 3
INT190 Space Planning + ................................................................................... 3
INT211 Interior Materials and Specifications + (3) OR
INT211AA Interior Materials + (1.5) AND

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

| INT211AB | Material Specifications + (1.5)... |
| :---: | :---: |
| INT215 | Professional Practices +............................................................... 3 |
| INT230 | Presentation Techniques +........................................................ 3 |
| INT222 | Residential Design + (3) OR |
| INT240 | Kitchen and Bath Design + (3) OR |
| INT240AA | Bath Design + (1.5) AND |
| INT240AB | Kitchen Design + (1.5)......................................................... 3 |
| Restricted Electives: None. |  |
| General Electives: None. |  |
| General Education Requirements: 19-25 Credits |  |
| CORE: 12-18 Credits |  |
| First-Year Composition: |  |
| ENG101 | First-Year Composition + (3) OR |
| ENG107 | First-Year Composition for ESL + (3) AND |
| ENG102 | First-Year Composition + (3) OR |
| ENG108 | First-Year Composition for ESL +................................................ 6 |
| Oral Communication: |  |
| COM100 | Introduction to Human Communication (3) OR |
| COM110 | Interpersonal Communication (3) ........................................................ 3 |
| COM110 is recommended for students who intend to transfer to Northern Arizona University. Critical Reading: |  |
| CRE101 | College Critical Reading and Critical Thinking + (3) OR Equivalent as indicated by assessment $\qquad$ 0-3 |
| Mathematics: |  |
| MAT140 | College Mathematics + (5) OR |
| MAT141 | College Mathematics + (4) OR |
| MAT142 | College Mathematics + (3) OR |
| MAT145 | College Mathematics with Review (5) OR |
| MAT146 | College Mathematics with Review (6) OR |
| Equivalent or higher-level mathematics course in the Mathematical Applications [MA] area. . 3-6 |  |
| DISTRIBUTION: 7 Credits |  |
| Humanities, Arts and Design: |  |
| Met by INT115 or INT120 in the Required Courses area ............................................. 0 |  |
| Social-Behavioral Sciences: |  |
| PSY101 | Introduction to Psychology ............................................................... 3 |
| Natural Sciences: |  |
| Any approved general education course in the Natural Sciences area.................................. 4 |  |
| Recommended: |  |
| BIO108 | Plants and Society (4) OR |
| GLG101 | Introduction to Geology I - Physical Lecture (3) AND |
| GLG103 | Introduction to Geology I - Physical Lab (1) OR |
| FON241 | Principles of Human Nutrition (3) AND |
| FON241LL | Principles of Human Nutrition Laboratory (1) ....................................... 4 |

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## Interior Design Kitchen and Bath Certificate of Completion - CCL 5070 30 Credits

The Certificate of Completion (CCL) in Interior Design Kitchen and Bath is intended to provide students with the knowledge and creative skills important to planning and developing kitchen and bath design solutions. The program prepares students for entry-level career in a kitchen and bath studio including, but not limited to, kitchen and bath planning, retail sales, and wholesale sales, or to advance within related job fields. Students will study design principles and elements, color theory, drawing, space planning, industry guidelines and standards, and other factors utilized in kitchen and bath design. The program helps to prepare students for National Kitchen and Bath Association (NKBA) certifications. An Associate in Applied Science (AAS) in Interior Design is also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program.
Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 27 Credits
ARC141 Architectural CAD I: Introduction (3) AND
ARC142 Architectural CAD II: Plans and Elevations + (3) AND
INT122 Digital Visualization for Design (3) OR
INT100 Interior Design Drafting (3) AND
INT122 Digital Visualization for Design (3) AND
INT140 Introduction to CAD for Interior Design (3)............................................. 9
INT105 Introduction to Interior Design ................................................................. 3
INT145 Drawing and Rendering (3) OR
INT145AA Sketching and Visualization + (1.5) AND
INT145AB Rendering + (1.5)................................................................................... 3
INT190 Space Planning + ..................................................................................... 3
INT211 Interior Materials and Specifications + (3) OR
INT211AA Interior Materials + (1.5) AND
INT211AB Material Specifications + (1.5)................................................................. 3
INT230 Presentation Techniques +...................................................................... 3
INT240 Kitchen and Bath Design + (3) OR
INT240AA $\quad$ Bath Design $+(1.5)$ AND
INT240AB Kitchen Design + (1.5)........................................................................... 3

## Restricted Electives: 3 Credits

Select one course from the following:
COM100 Introduction to Human Communication 3

COM263 Elements of Intercultural Communication................................................. 3
EPS150 Introduction to Entrepreneurship............................................................... 3
INT115
INT120
INT150
INT215
Historical Architecture and Furniture........................................................ 3
Modern Architecture and Furniture.......................................................... 3
and Design.............................................................................................. 3
Professional Practices +........................................................................... 3
Owning and Operating a Small Business ................................................. 3

CONTACT: Ms. M. Jospitre, Program Director:
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maryse.jospitre@phoenixcollege.edu

## Interior Design Technology

Certificate of Completion - CCL 5071
24 Credits
The Certificate of Completion (CCL) in Interior Design Technology is designed to provide the informational, attitudinal, and technical skills required for an entry-level position as a Computer Aided Drafting (CAD) operator in an Interior Design or related office. Computer-aided design using AutoCAD, Revit, Sketchup, and the Adobe Creative Suite forms the core of this program. An Associate in Applied Science (AAS) in Interior Design and an Associate in Applied Science (AAS) in Architectural Technology are also available.

Program Notes: Students must earn a grade of C or better for all courses within the program.

## Admission Criteria: None.

Program Prerequisites: None.
Required Courses: 21 Credits
ARC141 Architectural CAD I: Introduction (3) AND
ARC142 Architectural CAD II: Plans and Elevations + (3) AND
INT122 Digital Visualization for Design (3) OR
INT100 Interior Design Drafting (3) AND
INT122 Digital Visualization for Design (3) AND
INT140 Introduction to CAD for Interior Design (3).............................................. 9
$\begin{array}{ll}\text { INT145 } & \text { Drawing and Rendering (3) OR } \\ \text { INT145AA } & \text { Sketching and Visualization + (1.5) AND } \\ \text { INT145AB } & \text { Rendering }+(1.5) \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~\end{array} 3$
INT230 Presentation Techniques +...................................................................... 3
ARC/INT250 Basic Revit + ........................................................................................... 3
ARC265/INT251 Sketchup I: Introduction to Sketchup....................................................... 3
Restricted Electives: 3 Credits
Select one course from the following:
COM100 Introduction to Human Communication .................................................... 3
COM263 Elements of Intercultural Communication................................................ 3
EPS150 Introduction to Entrepreneurship.............................................................. 3
INT105 Introduction to Interior Design ................................................................ 3
INT215 Professional Practices +............................................................................ 3
MGT253 Owning and Operating a Small Business ................................................. 3

CONTACT: Ms. M. Jospitre, Program Director:
(602) 285.7608 and/or
maryse.jospitre@phoenixcollege.edu

## Interior Design Upholstery and Soft Goods Production Certificate of Completion - CCL 5074 <br> 30 Credits

The Certificate of Completion (CCL) in Interior Design Upholstery and Soft Goods Production is intended to provide students with the knowledge and creative skills important to operating current commercial machinery and upholstery. The program prepares students for an entry-level career as an upholsterer or soft goods fabricator for residential and commercial applications. Students will study design principles, history and use of fabrics and textiles, colors, and upholstery techniques utilized in upholstery and soft goods production. Elective coursework also allows students to take specific courses preparing them for a particular segment of the industry they are most interested in pursuing. An Associate in Applied Science (AAS) in Interior Design is also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program.
Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 27 Credits
INT105 Introduction to Interior Design ................................................................ 3
$\begin{array}{ll}\text { INT/TEC126 } & \text { Sewing for the Home (3) OR } \\ \text { TEC128 } & \text { Home Upholstery (3)................................................................................ } 3\end{array}$
INT145 Drawing and Rendering (3) OR
INT145AA Sketching and Visualization $+(1.5)$ AND
INT145AB Rendering + (1.5).................................................................................... 3
INT150 Color and Design .................................................................................... 3
INT156 Furniture Upholstery I............................................................................. 3
INT157 Furniture Upholstery II +......................................................................... 3
INT158 Furniture Upholstery III + ........................................................................ 3
INT159 Furniture Upholstery IV +....................................................................... 3
$\begin{array}{ll}\text { INT160 } & \text { Fabrics for Interiors (3) OR } \\ \text { TEC222 } & \text { Textiles (3).............................................................................................. } 3\end{array}$
Restricted Electives: 3 Credits
Select one of the courses from the list for a total of 3 credits:
INT115 Historical Architecture and Furniture.
.. 3
INT120 Modern Architecture and Furniture3

TEC114 Textiles: Block Printing/Silk Screening..................................................... 1
(May be repeated for a total of 3 credits)
TEC116 Textiles: Stitchery and Embellishment
.1
(May be repeated for a total of 3 credits)

CONTACT: Ms. M. Jospitre, Program Director:
(602) 285.7608 and/or
maryse.jospitre@phoenixcollege.edu

## Interior Merchandising and Home Staging Certificate of Completion - CCL 5429 <br> 21 Credits

The Certificate of Completion (CCL) in Interior Merchandising and Home Staging is intended to provide students with the knowledge and creative skills important to colorizing, visual merchandising, home-staging, and selecting furnishings and accessories. The program prepares students for entry-level career as a home decorator, retail merchandiser, home stager, model home merchandiser, etc. or to advance within these job fields. Students will study design principles and elements, color theory, drawing, furniture layout, historical and modern architecture and furniture, fabrics, and other factors utilized in interior merchandising. An Associate in Applied Science (AAS) in Interior Design is also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program.
Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 21 Credits
INT100 Interior Design Drafting (3) OR
INT145 Drawing and Rendering (3) OR
INT145AA Sketching and Visualization + (1.5) AND
INT145AB Rendering + (1.5).................................................................................... 3
INT105 Introduction to Interior Design ................................................................. 3
INT115 Historical Architecture and Furniture........................................................ 3
INT120 Modern Architecture and Furniture.......................................................... 3
INT150 Color and Design .................................................................................... 3
INT160 Fabrics for Interiors................................................................................... 3
INT215 Professional Practices + (3) OR
MGT251 Human Relations in Business (3) OR
MGT253 Owning and Operating a Small Business (3)............................................ 3

## Restricted Electives: None.

CONTACT: Mr. J. Weddle, Coordinator, Commercial Music Studies: (602) 285-7555 and/or dana.belmonte @phoenixcollege.edu

## Music Industries: Music Business

## Associate in Applied Science - AAS 3017 <br> 61-70 Credits

The Associate in Applied Science (AAS) in Music Industries: Music Business is designed to provide aspiring music industry professionals with a broad background in music management, production, and entrepreneurship activities. The program combines theoretical and applied learning experiences to help students gain a strategic understanding of commercial music as both an art and profession. Students will choose a focus area among business and marketing, commercial performance, and music production. They will employ analytical and communication skills and explore aesthetic, cultural, and historical perspectives relevant to the music industry.

Program Notes: Students must earn a grade of C or better for all courses required within the program.
Admission Criteria: None.

## Program Prerequisites: None.

| Required Courses: | 26-29 Credits |
| :--- | :--- |
| FYE101 | Introduction to College, Career and Personal Success (1) OR |
| FYE103 | Exploration of College, Career and Personal Success (3) .....................1-3 |

Restricted Electives: 12-13 Credits
Students should work with their program advisor to select 12-13 credits from courses that align with the academic/career goals and further their development in the areas of music business and marketing, music production, and commercial performance. Courses from Required Courses area may not be used.

Business and Marketing
GBS+++ Any GBS General Business course(-s)
MKT+++ Any MKT Marketing course(-s)
MUC+++ Any MUC Music: Commercial/Business course(-s)
Music Production
MTC+++ Any MTC Music: Theory/Composition course(-s)
MUC+++ Any MUC Music: Commercial/Business course(-s)
Commercial Performance
MTC+++ Any MTC Music: Theory/Composition course(-s)
MUP+++ Any MUP Music: Performance course(-s)
General Electives: 0-1 Credits
Select courses 100-level or higher to complete a minimum of 60 semester credits. Consult with an Academic and/or Program Advisor.

General Education Requirements: 22-28 Credits
CORE: 12-18 Credits
First-Year Composition:
$\begin{array}{ll}\text { ENG101 } & \text { First-Year Composition + (3) OR } \\ \text { ENG107 } & \text { First-Year Composition for ESL + (3) AND } \\ \text { ENG102 } & \text { First-Year Composition + (3) OR } \\ \text { ENG108 } & \text { First-Year Composition for ESL + (3) OR } \\ \text { ENG111 } & \text { Technical and Professional Writing + (3)............................................ } 6\end{array}$
ENG101 or ENG107 and ENG102 or ENG108 is recommended for students who intend to transfer.
Oral Communication:
COM100 Introduction to Human Communication (3) OR
COM110 Interpersonal Communication (3) OR
COM225 Public Speaking + (3) OR
COM230 Small Group Communication (3)............................................................. 3
Consult with an academic advisor about specific COM requirements if intending to transfer.
Critical Reading:
CRE101
College Critical Reading and Critical Thinking + (3) OR
Equivalent as indicated by assessment0-3

Mathematics:
MAT140 College Mathematics + (5) OR
MAT141 College Mathematics + (4) OR
MAT142
MAT145
College Mathematics + (3) OR
College Mathematics with Review (5) OR
MAT146
College Mathematics with Review (6)3-6

DISTRIBUTION: 10 Credits
Humanities, Arts and Design:
Any approved general education course from the Humanities, Arts and Design [HU] area ......... 3 Social-Behavioral Sciences:
Any approved general studies education from the Social-Behavioral Sciences [SB] area............. 3
Natural Sciences:
Any approved general studies education from the Natural Sciences area .4

CONTACT: Mr. J. Weddle, Coordinator, Commercial Music Studies: (602) 285-7555 and/or dana.belmonte @phoenixcollege.edu

## Music Business I <br> Certificate of Completion - CCL 5106 <br> 16 Credits

The Certificate of Completion (CCL) in Music Business I is designed to provide aspiring music industry professionals with a broad background in music management, production, and entrepreneurship activities. The program combines foundational and applied learning experiences to help students gain a strategic understanding of commercial music as both an art and profession. There is a Certificate of Completion (CCL) in Music Business II available as well as an Associate in Applied Science (AAS) in Music Industries: Music Business.

Program Notes: Students must earn a grade of C or better for all courses required within the program.
Admission Criteria: None.

Program Prerequisites: None.
Required Courses: 16 Credits
MGT253 Owning and Operating a Small Business ................................................. 3
MKT110 Marketing and Social Networking (3) OR
MKT271 Principles of Marketing (3)..................................................................... 3
MUC109 Music Business: Content Creation and Copyright..................................... 3
MUC110 Music Business: Marketing and Monetization .......................................... 3
MUC293 Self Promotion for Music ......................................................................... 1
MTC180 Computer Literacy for Musicians + (3) OR
MUC180 Computer Literacy for the Music Business (3) ............................................... 3
Note: Students who have not already completed MTC180 must take MUC180.
Restricted Electives: None.

CONTACT: Mr. J. Weddle, Coordinator, Commercial Music Studies:
(602) 285-7555 and/or
dana.belmonte@phoenixcollege.edu

## Music Business II <br> Certificate of Completion - CCL 5258 <br> 35-37 Credits

The Certificate of Completion (CCL) in Music Business II is designed to provide aspiring music industry professionals with a broad background in music management, production, and entrepreneurship activities. The program combines theoretical and applied learning experiences to help students gain a strategic understanding of commercial music as both an art and profession. An Associate in Applied Science (AAS) in Music Industries: Music Business is available.

Program Notes: Students must earn a grade of C or better for all courses within the program.
Admission Criteria: None.

## Program Prerequisites: None.

Required Courses: $25-26$ CreditsMGT253 Owning and Operating a Small Business
3
MKT110 Marketing and Social Networking. .....  3
MKT271 Principles of Marketing ..... 3
MUC109 Music Business: Content Creation and Copyright. ..... 3
MUC110 Music Business: Marketing and Monetization ..... 3
MTC180 Computer Literacy for Musicians + (3) OR MUC180 Computer Literacy for the Music Business (3) ..... 3
Note: Students who have not already completed MTC180 must take MUC180.
MUC209 Music Industry Entrepreneurship +. ..... 3
MUC293 Self Promotion for Music ..... 1
Music Industry Capstone Experience
MUC290AA Music Business Internship + (1) OR
MUC296WA Cooperative Education + (1) OR
MUC298AA Special Projects (1) ..... 1
Overview of Music Genres
MUC242 Music Genres and Styles (2) OR
MHL155 Survey of American Music (3) ..... 2-3

## Restricted Electives: 10-11 Credits

Students should work with their program advisor to select 10-11 credits from courses that align with the academic/career goals and further their development in the areas of music business and marketing, music production, and commercial performance. Courses from Required Courses area may not be used.

Music Business and Marketing
GBS+++ Any GBS General Business course
MKT+++ Any MKT Marketing course

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

MUC+++ Any MUC Music: Commercial/Business course
Music Production
MTC+++ Any MTC Music: Theory/Composition course MUC+++ Any MUC Music: Commercial/Business course

Commercial Performance
MTC+++ Any MTC Music: Theory/Composition course MUP+++ Any MUP Music: Performance course

General Electives: None.

CONTACT: Ms. C. Brandom
(602) 285.7287 and/or
char.brandom@phoenixcollege.edu

## Pattern Design, Level I

Certificate of Completion - CCL 5947

## 17-23 Credits

The Certificate of Completion (CCL) in Pattern Design, Level I trains students to create patterns using flat patterns, draping methods, and grading. A Certificate of Completion (CCL) in Pattern Design: Level II is also available.

Program Notes: Students must earn a grade of C or better in all courses within the Required Courses area.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 17-23 Credits
TEC110 Beginning Apparel Construction (3) OR permission of Program Director............................................................ 0-3

TEC111 | Intermediate Apparel Construction + (3) OR |
| :--- |
| Permission of Program Director ......................................................... 0-3 |

TEC112AQ Pattern Alteration and Fit + ..................................................................... 2
TEC122 Sewing with Knits +............................................................................... 3
TEC124 Advanced Apparel Construction +.......................................................... 3
TEC225 Pattern Design I +................................................................................... 3
TEC226 Draping for Fashion Design + ................................................................ 3
TEC231
Pattern Grading +3

Restricted Electives: None.

CONTACT: Ms. C. Brandom
(602) 285.7287 and/or
char.brandom@phoenixcollege.edu

## Pattern Design, Level II <br> Certificate of Completion - CCL 5949 <br> 35-41 Credits <br> The Certificate of Completion (CCL) in Pattern Design, Level II enhances skills for advanced flat pattern design, draping pattern drafting, computer-assisted pattern making, and pattern making for industry.

Program Notes: Students must earn a grade of C or better in all courses within the program.
Admission Criteria: None
Program Prerequisites: None.
Required Courses: 35-41 Credits

| The following courses are required and included in CCL/5947 Pattern Design, Level I (17-23 credits): |  |
| :--- | :--- |
| TEC110 | Beginning Apparel Construction (3) OR <br> permission of Program Director............................................................ 0-3 |

TEC111 | Intermediate Apparel Construction + (3) OR |
| :--- |
| permission of Program Director.......................................................... 0-3 |

TEC112AQ Pattern Alteration and Fit + ...................................................................... 2
TEC122 Sewing with Knits +................................................................................ 3
TEC124 Advanced Apparel Construction +........................................................... 3
TEC225 Pattern Design I +.................................................................................... 3
TEC226 Draping for Fashion Design + ................................................................. 3
TEC231 Pattern Grading +.................................................................................... 3
The following courses are required and included in CCL/5949 Pattern Design, Level II (18 credits):
TEC224 Pattern Drafting + .................................................................................. 2
TEC228 Advanced Draping for Fashion Design +................................................ 3
TEC230 Pattern Design II +................................................................................. 3
TEC233 Computer-Assisted Pattern Making + ....................................................... 3
TEC234 Vintage Fashion Design + ....................................................................... 3
TEC238 Industry Patternmaking Standards + ........................................................ 1
TEC270 Design Studio + ...................................................................................... 3
Restricted Electives: None.

CONTACT: Ms. J. Laffoon, Coordinator, Photography Studies:
(602) 285-7280 and/or
dana.belmonte@phoenixcollege.edu

## Photography <br> Associate in Applied Science - AAS 3195 61-67 Credits

The Associate in Applied Science (AAS) in Photography program is designed for the student who wishes to pursue a career in photography, either commercial or fine arts. Students will study digital and traditional film-based (darkroom) media, content and image selection, and the theory and practice of visual communication.

Program Notes: Students must earn a grade of C or better for all courses required within the program. There will be costs for supplies and equipment in this program.
Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 27-31 Credits
ARH101 Art from Prehistory Through Middle Ages (3) OR
Art from Renaissance to Modernism (3) ..... 3
ARH102
History of Photography. .....  3
ARH115
Introduction to Digital Arts ..... 1
AVC100
Two-Dimensional Design ..... 3
ART112
Color. .....  3
ART113
Photography I. ..... 3
ART131
Photography II + ..... 3
ART132
Introduction to Digital Photography ..... 3
AVC142
Intermediate Digital Photography + .....  3
AVC143ART255 Art Marketing (3) ORART255AB The Portfolio (1)1-3
FYE101 Introduction to College, Career and Personal Success (1) OR
FYE103 Exploration of College, Career and Personal Success (3) ..... 1-3
Restricted Electives: 8-20 CreditsComplete all courses in the specialization below that best aligns with your academic and professionalgoals.
Specialization I: Commercial Photography (13-20 credits) AVC138 Commercial Photography I +. ..... 3
AVC139 Commercial Photography II + ..... 3
AVC140 Portrait Photography + (3) ORAVC237 Fashion Photography + (3) 3
SBS200 Small Business Operations ..... 2

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

MKT110<br>MKT263<br>MKT271<br>SBS204

Marketing and Social Networking (3) OR
Advertising Principles (3) OR
Principles of Marketing (3) OR
Small Business Marketing and Advertising (2)......................................2-3

In consultation with advisor or program coordinator, choose up to six (6) credits of coursework from the following list to best fulfill goals and complete a minimum of 60 credits required for the AAS.
AVC169
2D Media Design +
.3

AVC177 Digital Photographic Imaging I + .......................................................... 3
ART111
Drawing I.
.3
ART116
Life Drawing I 3
ART137 Alternative Photographic Processes .....  3
AVC178 Digital Arts Studies + .....  3
AVC181 Graphic Design I +. ..... 3
ART234 Color Photography + ..... 3
AVC270 Digital Photographic Imaging II + ..... 3
ART290AC Studio Art + ..... 3
ART290EC Studio Art: Photography + .....  3
ART290MC Studio Art: Digital Photography + ..... 3
ART295DA Art Workshop/Seminar: Photography + ..... 1
ART295DB Art Workshop/Seminar: Photography + ..... 2
ART295DC Art Workshop/Seminar: Photography + ..... 3
AVC297AA Commercial Art Internship (1) OR
AVC297AB Commercial Art Internship (2) + ..... $1-2$
FMP108 Video Production ..... 3
Specialization II: Fine Art Photography (8-15 credits)
ART133 Photography III + .....  3
ART137 Alternative Photographic Processes ..... 3
Select 2-9 credits from the following:
AVC169 2D Media Design + ..... 3
AVC177 Digital Photographic Imaging I + ..... 3
ART111 Drawing I. .....  3
ART116 Life Drawing I .....  3
ART134 Photography IV +. ..... 3
AVC178 Digital Arts Studies +. ..... 3
ART234 Color Photography + .....  3
ART250 Introduction to Printmaking +. ..... 3
AVC270 Digital Photographic Imaging II + .....  3
AVC274 Digital Photographic Imaging III + .....  3
ART290AC Studio Art + ..... 3
ART290EC Studio Art: Photography + .....  3
ART290MC Studio Art: Digital Photography + .....  3
ART295DA Art Workshop/Seminar: Photography + .....  1
ART295DB Art Workshop/Seminar: Photography + ..... 2
ART295DC Art Workshop/Seminar: Photography + ..... 3

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

| AVC297AA | Commercial Art Internship +. |
| :---: | :---: |
| SBS200 | Small Business Operations .............................................................. 2 |
| SBS204 | Small Business Marketing and Advertising....................................... 2 |

General Electives: 0-7 Credits
Select courses 100-level or higher to complete a minimum of 60 semester credits but no more than a total of 64 semester credits. Consult with the Program Director or an Academic Advisor.

Recommend that students interested in transferring to a four-year institution to earn a bachelor's degree take courses that fulfill any unmet Arizona General Education Curriculum (AGEC) requirements.

General Education: 19-25 Credits
CORE: 12-18 Credits
First-Year Composition:
ENG101 First-Year Composition + (3) OR
ENG107 First-Year Composition for ESL + (3) AND
$\begin{array}{ll}\text { ENG102 } & \text { First-Year Composition + (3) OR } \\ \text { ENG108 } & \text { First-Year Composition for ESL }+(3) \text {....................................................... } 6\end{array}$
Oral Communication:
COM100 Introduction to Human Communication (3) OR
COM110 Interpersonal Communication (3) OR
COM225 Public Speaking + (3) OR
COM230 Small Group Communication (3)............................................................. 3
Critical Reading:
CRE101 College Critical Reading and Critical Thinking + (3) OR Equivalent as indicated by assessment 0-3
Mathematics:
MAT140 College Mathematics + (5) OR
MAT141 College Mathematics + (4) OR
MAT142 College Mathematics + (3) OR
MAT145 College Mathematics with Review + (5) OR
MAT146 College Mathematics with Review (6) OR
Any approved general education course in the Mathematical Applications [MA] area (3-6) .... 3-6
DISTRIBUTION: 7 Credits
Humanities, Arts and Design:
Met by ARH101 OR ARH102 OR ARH115 OR ART131 in Required Courses.......................... 0
Social-Behavioral Sciences:
Any approved general education course in the Social-Behavioral Sciences [SB] area. .3

## Natural Sciences:

Any approved general education course in the Natural Sciences (Quantitative) [SQ] area or the Natural Sciences (General) [SG] area4

CONTACT: Mr. E. Erspamer, Coordinator, Graphic Arts Studies:
(602) 285-7171 and/or
dana.belmonte@phoenixcollege.edu

## Sequential Art Certificate of Completion - CCL 5177 40 Credits

The Certificate of Completion (CCL) in Sequential Art develops knowledge and skills in the area of sequential art, including but not limited to comics, graphic novels, anime, children's books, selfpublishing, digital illustration, and storyboarding for digital media. Students will develop diverse narratives that reflect cultural, historical, and social diversity. The program provides the student with an understanding of writing for sequential art, illustration techniques, and digital media tools for illustration, layout and publication. This certificate prepares students for employment and upgrades the skills of persons employed in occupations such as illustrator, comic book artist, storyboarder, cartoonist, penciler, inker, colorist, letterer, production artist, game designer, and comic book writer. An Associate in Applied Science (AAS) in Illustration and Sequential Art is also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program.

## Admission Criteria: None.

## Program Prerequisites: None.

## Required Courses: 40 Credits

AVC169 2D Media Design +................................................................................ 3
AVC177 $\quad$ Digital Photographic Imaging I + .3
AVC289 Computer Illustration + ..... 3
AVC100 Introduction to Digital Arts. ..... 1
ART111 Drawing I. ..... 3
ART113
AVC114
Color (3) OR
Digital Color (3) ..... 3
ART116 Life Drawing I ..... 3
AVC119 Penciling for Comic and Sequential Art. ..... 3
AVC120 Inking for Comic and Sequential Art .....  3
AVC178 Digital Arts Studies +. ..... 3
AVC219 Coloring, Toning and Lettering for Comic and Sequential Art. ..... 3
AVC220 Publishing for the Comic Industry ..... 3
AVC221 Comics Creation ..... 3
CRW172 Introduction to Comic Book Writing (3) OR
CRW176 Writing Narrative for Video Games (3) ..... 3
Restricted Electives: None.

CONTACT: Dr. C. Marín, Program Director:
(602) 285.7303 and/or
christina.marín@phoenixcollege.edu

## Technical Theatre <br> Certificate of Completion - CCL 5462 21-48 Credits

The Certificate of Completion (CCL) in Technical Theatre is designed to prepare students for a wide range of careers within theatre operations and production. The curriculum includes a foundation of applied skills within technical theatre including backstage personnel skills, as well as hands-on experience working on live theatre productions and events. Students may select from a choice of specializations in audio, costuming, group/solo cosplay, hair and makeup, lighting, properties, puppetry, and set/scenic construction. Program graduates can directly enter the workforce into positions such as cosplay actor, puppeteer, sound engineer, lighting technician, carpenter, scenic painter, stage crew, stage management, wardrobe crew, costume stitcher, costume crafts apprentice, and hair/makeup artist in a range of settings including live theatre, television and film, conferences and events, attractions and shows.

Students can earn an embedded Certificate of Completion (CCL) in Stage Crew along with one additional area: Audio Technician, Costuming, Group/Solo Cosplay, Hair and Makeup, Lighting, Properties, Puppetry, and Set/Scenic construction. An Associate in Arts, Fine Arts (AAFA), Emphasis in Theatre is also available for students interested in university transfer.

Program Notes: Students must earn a grade of C or better for all courses required within the program. Students should select an area of specialization based on their personal, academic, and professional goals. Students should speak to a program director or academic advisor for details.

Admission Criteria: None.
Program Prerequisites: None.

## Required Courses: 14-23 Credits <br> ENG101 First Year Composition + 0-3

Students who intend to take THE220 must take ENG101.
THE111 Introduction to Theatre ............................................................................ 3

| THE220 | Modern Drama + (3) OR |
| :--- | :--- |
| THO225 | Visual Script Analysis (3) OR |
| THP291AC | Summer Conservatory: Script Analysis (ACT) + (1) .............................1-3 |


| THP201AB | Theatre Production II (2) OR |
| :--- | :--- |
| THO203 | Technical Theatre Production (3............................................................2-3 |

THP213 Introduction to Technical Theatre............................................................. 4
THO251 Safety Practices in Theatre and Film Production ......................................... 1
THO266 Production Careers in Technical Theatre .................................................. 1
THO269 Technical Theatre Portfolio Development................................................ 1
THP296++ Cooperative Education +.....................................................................1-4

## Restricted Electives: 7-25 Credits

Students must also select and complete one of the following specialization areas in Technical Theatre based on their personal, academic, and professional goals. Speak to a program director or academic advisor for details.
Specialization 1: Audio Technician (10-11 credits)
MUC122 Sound Design I + ..... 3
MUC197 Live Sound Reinforcement I ..... 3
MUC198 Live Sound Reinforcement II + ..... 3
THP201AA Theatre Production I (1) OR
THP201AB Theatre Production II (2) OR
THP202 Theatre Production Projects (1) OR
THO202AB Theatre Production I Electrics (1) ..... 1-2
Specialization 2: Cosplay I (12-13 credits)
TEC111 Intermediate Apparel Construction (3) OR
THP206 Introduction to Costume Construction for Theatre (4) ..... 3-4
THF115 Makeup for Stage and Screen .....  3
THO208 Costume Play Solo Performance Practicum ..... 3
THO250 Stage Properties. ..... 3
Specialization 3: Cosplay II (24-25 credits)
CIS103 Introduction to Social Media (3) OR
MKT110 Marketing and Social Networking (3) ..... 3
TEC111 Intermediate Apparel Construction (3) OR
THP206 Introduction to Costume Construction for Theatre (4) ..... 3-4
THF115 Makeup for Stage and Screen ..... 3
THO215 Advanced Makeup Techniques for Stage and Screen + .....  3
THO216 Wig and Hair Production for Theatre and Film .....  3
THO208 Costume Play Solo Performance Practicum .....  3
THO209 Costume Play Group Performance Practicum ..... 3
THO250 Stage Properties. .....  3
Specialization 4: Costuming (8-9 credits)
THP201AA Theatre Production I (1) OR
THP201AB Theatre Production II (2) OR
THO202AC Theatre Production I Costume Shop (1) ..... 1-2
THP206 Introduction to Costume Construction for Theatre. ..... 4

Students should work with their program advisor to select 3 credits that align with the academic/career goals and further their development in the area of Costuming.

| TEC113 | Textiles: Dyeing (1) AND |
| :--- | :--- |
| TEC114 | Textiles: Block Printing/Silk Screening (1) AND |
| TEC115 | Textiles: Hand Painting (1) OR |
| TEC225 | Pattern Design I (3) OR |

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
THF115 Makeup for Stage and Screen (3) ..... 3
Specialization 5: Hair and Makeup (10-11 credits)
THF115 Makeup for Stage and Screen .....  3
THO215 Advanced Makeup Techniques for Stage and Screen + ..... 3
THO216 Wig and Hair Production for Theatre and Film ..... 3
THP201AA Theatre Production I (1) OR
THP201AB Theatre Production II (2) OR
THO202AC Theatre Production I Costume Shop (1) ..... 1-2
Specialization 6: Lighting (7-8 credits)
THP201AA Theatre Production I (1) OR
THP201AB Theatre Production II (2) OR
THO202AB Theatre Production I Electrics (1) ..... 1-2
THO218 Beginning Stage Lighting ..... 3
THO263 Entertainment Industry Drafting I: 2D CAD ..... 3
Specialization 7: Properties (7-9 credits)
THP201AA Theatre Production I (1) OR
THP201AB Theatre Production II (2) OR
THO202AA Theatre Production I Scene Shop (1) OR
THO202AC Theatre Production I Costume Shop (1) ..... 1-2
THP206 Introduction to Costume Construction for Theatre (4) OR
THO267 Painting Techniques for Film, TV and Theatre $+(3)$ ..... 3-4
THO250 Stage Properties ..... 3
Specialization 8: Puppetry (14-15 credits)
THP112 Acting I (3) OR
THP151 Theatre for Youth (3) ..... 3
THP201AA Theatre Production I (1) OR
THP201AB Theatre Production II (2) OR
THO202AA Theatre Production I Scene Shop (1) OR THO202AC Theatre Production I Costume Shop (1). ..... 1-2
THP206 Introduction to Costume Construction for Theatre ..... 4
THO219 Introduction to Puppetry .....  3
THO250 Stage Properties ..... 3
Specialization 9: Set/Scenic Construction (10-11 credits)
ARC141 Architectural CAD I: Introduction (3) OR
CAD100 Fundamentals of 2D AutoCAD (3) .....  3
THP201AA Theatre Production I OR (1)
THP201AB Theatre Production II (2) OR
THO202AA Theatre Production I Scene Shop (1) ..... 1-2
+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
$\qquad$
+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.

CONTACT: Dr. C. Marín, Program Director: (602) 285.7303 and/or
christina.marin@phoenixcollege.edu

## Technical Theatre: Audio Technician <br> Certificate of Completion - CCL 5077N <br> 11-12 Credits

The Certificate of Completion (CCL) in Technical Theatre: Audio Technician is designed to prepare students to apply live sound reinforcement in theatre productions. Classes include instruction in live sound reinforcement, setting up equipment, and sound design for theatrical productions. A Certificate of Completion (CCL) in Technical Theatre and the Associate in Arts, Fine Arts (AAFA), Emphasis in Theatre are also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: 11-12 Credits
MUC122 Sound Design I +................................................................................... 3
MUC197 Live Sound Reinforcement I..................................................................... 3
MUC198 Live Sound Reinforcement II + ................................................................ 3
THP201AA Theatre Production I (1) OR
THP201AB Theatre Production II (2) OR
THP202 Theatre Production Projects (1) OR
THO202AB Theatre Production I Electrics (1) 1-2

THO251 Safety Practices in Theatre and Film Production........................................ 1
Restricted Electives: None.

CONTACT: Dr. C. Marín, Program Director: (602) 285.7303 and/or
christina.marin@phoenixcollege.edu

## Technical Theatre: Costuming <br> Certificate of Completion - CCL 5090N <br> 8-9 Credits

The Certificate of Completion (CCL) in Technical Theatre: Costuming is designed to provide students with skills in the acquisition, construction, alteration, and maintenance of costumes for theatrical performances. Courses include instruction in costume construction, theory and period styles. A Certificate of Completion (CCL) in Technical Theatre and the Associate in Arts, Fine Arts (AAFA), Emphasis in Theatre are also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program.

Admission Criteria: None.

Program Prerequisites: None.


CONTACT: Dr. C. Marín, Program Director: (602) 285.7303 and/or
christina.marin@phoenixcollege.edu

## Technical Theatre: Lighting

Certificate of Completion - CCL 5095N 12-13 Credits
The Certificate of Completion (CCL) in Technical Theatre: Lighting is designed to provide students with skills in lighting for theatrical performances. Courses Include instruction in basic circuiting and dimmer application, lighting plots, programming, hanging and focus of lighting instruments, light board operation, and safety in the theatre. A Certificate of Completion (CCL) in Technical Theatre and the Associate in Arts, Fine Arts (AAFA), Emphasis in Theatre are also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program.

Admission Criteria: None.

Program Prerequisites: None.

| Required Courses: 12-13 Credits |  |  |
| :---: | :---: | :---: |
| THP201AA | Theatre Production I (1) OR |  |
| THP201AB | Theatre Production II (2) OR |  |
| THO202AB | Theatre Production I Electrics (1) | 1-2 |
| THP213 | Introduction to Technical Theatre |  |
| THO218 | Beginning Stage Lighting. |  |
| THO251 | Safety Practices in Theatre and Film |  |
| THO263 | Entertainment Industry Drafting I: |  |

Restricted Electives: None.

CONTACT: Dr. C. Marín, Program Director: (602) 285.7303 and/or
christina.marin@phoenixcollege.edu

## Technical Theatre: Properties <br> Certificate of Completion - CCL 5098N <br> 12-14 Credits

The Certificate of Completion (CCL) in Technical Theatre: Properties is designed to provide students with skills in the acquisition, construction, alteration, maintenance, and repair of properties for theatrical performances. Courses include instruction in prop construction, sewing, use of tools, and creation and maintenance of production paperwork. A Certificate of Completion (CCL) in Technical Theatre and the Associate in Arts, Fine Arts (AAFA), Emphasis in Theatre are also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program.

Admission Criteria: None.

## Program Prerequisites: None.

| Required Courses: 12-14 Credits |  |  |
| :---: | :---: | :---: |
| THP201AA | Theatre Production I (1) OR |  |
| THP201AB | Theatre Production II (2) OR |  |
| THO202AA | Theatre Production I Scene Shop (1) OR |  |
| THO202AC | Theatre Production I Costume Shop (1). | .1-2 |
| THP206 | Introduction to Costume Construction for Theatre (4) OR |  |
| THO267 | Painting Techniques for Film, TV and Theatre + (3). | 3-4 |
| THP213 | Introduction to Technical Theatre | .. 4 |
| THO250 | Stage Properties..... |  |
| THO251 | Safety Practices in Theatre and Film Production |  |

Restricted Electives: None.

CONTACT: Dr. C. Marín, Program Director: (602) 285.7303 and/or
christina.marin@phoenixcollege.edu

## Technical Theatre: Puppetry

Certificate of Completion - CCL 5148N

## 15-16 Credits

The Certificate of Completion (CCL) in Technical Theatre: Puppetry is designed to provide students with skills in puppetry for theatrical performances. Courses include instruction in the creation and operation of puppets in performance. A Certificate of Completion (CCL) in Technical Theatre and the Associate in Arts, Fine Arts (AAFA), Emphasis in Theatre are also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program.

Admission Criteria: None.
Program Prerequisites: None.
Required Courses: $15-16$ Credits
THP112 Acting I (3) OR
THP151 Theatre for Youth (3) .............................................................................. 3

| THP201AA | Theatre Production I (1) OR |
| :--- | :--- |
| THP201AB | Theatre Production II (2) OR |
| THO202AA | Theatre Production I Scene Shop (1) OR |
| THO202AC | Theatre Production I Costume Shop (1)................................................1-2 |

THP206 Introduction to Costume Construction for Theatre..................................... 4
THO219 Introduction to Puppetry........................................................................... 3
THO250 Stage Properties........................................................................................ 3
THO251 Safety Practices in Theatre and Film Production ..................................... 1

## Restricted Electives: None.

CONTACT: Dr. C. Marín, Program Director: (602) 285.7303 and/or
christina.marin@phoenixcollege.edu

## Technical Theatre: Set/Scenic Construction Certificate of Completion - CCL 5096N <br> 9-10 Credits

The Certificate of Completion (CCL) in Technical Theatre: Set/Scenic Construction is designed to provide students with skills in the construction of sets for theatrical performances. Courses include instruction in theatrical set and scene construction, use of scene shop tools, materials and hardware. Plan reading and safety for set and scenic construction are also emphasized. A Certificate of Completion (CCL) in Technical Theatre and the Associate in Arts, Fine Arts (AAFA), Emphasis in Theatre are also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program.

Admission Criteria: None.
Program Prerequisites: None.

| Required Courses: | 9-10 Credits |
| :--- | :--- |
| THP201AA | Theatre Production I (1) OR |
| THP201AB | Theatre Production II (2) OR |
| THO202AA | Theatre Production I Scene Shop (1) .................................................. $1-2$ |

[^2]CONTACT: Dr. C. Marín, Program Director: (602) 285.7303 and/or
christina.marin@phoenixcollege.edu

## Technical Theatre: Stage Crew Technician <br> Certificate of Completion - CCL 5099 <br> 6-7 Credits

The Certificate of Completion (CCL) in Technical Theatre: Stage Crew Technician is designed to provide students with skills to work on theatrical productions as part of the stage crew. The courses include instruction in general theatre knowledge and safety and provide opportunities for hands-on theatrical production experience. A Certificate of Completion (CCL) in Technical Theatre and the Associate in Arts, Fine Arts (AAFA), Emphasis in Theatre are also available.

Program Notes: This program is not eligible for Title IV Federal Financial Aid. Students must earn a grade of C or better for all courses required within the program.

Admission Criteria: None.
Program Prerequisites: None.

| Required Courses: | 6-7 Credits |
| :--- | :--- |
| THP201AA | Theatre Production I (1) OR |
| THP201AB | Theatre Production II (2) OR |
| THO202AA | Theatre Production I Scene Shop (1) OR |
| THO202AB | Theatre Production I Electrics (1)........................................................ $1-2$ |

Restricted Electives: None.

CONTACT: Mr. E. Erspamer, Coordinator, Graphic Arts Studies:
(602) 285-7171 and/or
dana.belmonte@phoenixcollege.edu

## Time-Based Media <br> Certificate of Completion - CCL 5170 <br> 40 Credits

The Certificate of Completion (CCL) in Time-Based Media develops knowledge and skills in the area of time-based media, including but not limited to the production of still and time-based media, media production techniques, compositing, motion graphics, and interactive design. The curriculum is designed to provide the student with an understanding of media and photographic techniques, use of production equipment, media production terminology, media and interactivity applications, and industry practices. This certificate prepares students for employment and upgrades the skills of persons employed in occupational areas such as media production, marketing, publishing, motion graphics, photography, freelance artist designer, and web and interactivity design. An Associate in Applied Science (AAS) in Animation and Time-Based Media is also available.

Program Notes: Students must earn a grade of C or better for all courses required within the program. This CCL is designed for individuals who already have a degree or relevant experience in the field or who are currently employed in the field.

## Admission Criteria: None.

## Program Prerequisites: None.

Required Courses: 28 Credits
$\begin{array}{ll}\text { AVC169 } & \text { 2D Media Design + (3) OR } \\ \text { AVC178 } & \text { Digital Arts Studies + (3) ......................................................................... } 3\end{array}$
AVC177 Digital Photographic Imaging I +........................................................... 3
AVC/MMT184 Digital Animation I +.............................................................................. 3
AVC100 Introduction to Digital Arts...................................................................... 1
AVC142 Introduction to Digital Photography......................................................... 3

| ART111 | Drawing I (3) OR |
| :--- | :--- |
| ART116 | Life Drawing I (3)................................................................................... 3 |

ART/COM/STO150 Digital Storytelling (3) OR
FMT121 Story Theory for Film, Television and Media (3) OR
JRN213 Writing for Online + (3)
AVC202 Media Productions I + (3) OR
FMP108 Video Production (3)
$\begin{array}{ll}\text { AVC279 } & \text { Media Productions II + (3) OR } \\ \text { FMP215 } & \text { Digital Video Effects + (3) ....................................................................... } 3\end{array}$
$\begin{array}{ll}\text { MUC191 } & \text { Electronic Music I (3) OR } \\ \text { MUC122 } & \text { Sound Design I (3) .................................................................................. } 3\end{array}$

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
Restricted Electives: 12 Credits
Complete twelve (12) credits from courses not already selected in the Required Courses area. Studentsmay choose from one emphasis or from among multiple emphasis areas according to their occupationalneeds.
Photography Focus Area
ART131 Photography I. ..... 3
AVC138 Commercial Photography I + ..... 3
AVC140 Portrait Photography + .....  3
AVC143 Intermediate Digital Photography + .....  3
AVC270 Digital Photographic Imaging II + ..... 3
Audio Focus Area
FMP114 Audio Production + ..... 3
MUC191 Electronic Music I .....  3
MUC192 Electronic Music II + ..... 3
MUC122 Sound Design I. ..... 3
MUC195 Studio Music Recording I. .....  3
MUC222 Sound Design II + ..... 3
Media Production Focus Area
ART/COM/STO145 Digital Storybook .....  1
AVC/MMT190 Art of Web Site Design + . ..... 3
AVC192 Advanced Web Presentation Design + ..... 3
AVC/THO246 Digital Fabrication ..... 3
CIS133DA Internet/Web Development Level I .....  3
FMP204 Advanced Video Production + ..... 3
FMP215 Digital Video Effects + ..... 3
FMT151 TV and New Media Production + ..... 3
Motion Graphics Focus Area
ART116 Life Drawing I .....  3
ART174 Electronic Color Principles + ..... 1
AVC/MMT185 3D Modeling and Animation I + .....  3
AVC200 Animation and Interactivity .....  3
AVC240 Cinematography and Directing for 2D/3D Animation + .....  3
AVC273AC Special Topics: Multimedia Arts + ..... 3
AVC287 3D Character Animation + .....  3
FMP215 Digital Video Effects + .....  3


## BACHELOR'S DEGREE PROGRAMS

Maricopa Community Colleges is excited to launch our first-ever bachelor's degree programs!

- Behavioral Sciences (Bachelor of Science)
- Data Analytics and Programming (Bachelor of Applied Science)
- Early Childhood Education-Dual Language (Bachelor of Arts)
- Elementary and Special Education (Bachelor of Arts)
- Information Technology (Bachelor of Applied Science)
- Nuclear Medicine Technology and Computed Tomography (Bachelor of Applied Science)
- Public Safety Administration (Bachelor of Applied Science)

If you're thinking about getting your bachelor's degree, this is an excellent time to do it.
Our programs are affordable, convenient, and high quality-offering personalized support, small class sizes, and flexible schedules to guarantee your success. Up to 90 credits may be taken at any of the 10 Maricopa Community Colleges toward your degree completion.

A bachelor's degree is a great investment in your future-providing you with the skills and education you need to be well prepared for a career in a fast-growing field with higher annual earnings, greater job security, and more opportunities for advancement.

Learn more about our bachelor's degree opportunities.

## HONORS PROGRAM

CONTACT: Honors Program Office (602) 285.7305
Honors opportunities at Maricopa Community Colleges provide academically outstanding students a way to achieve the maximum benefit of their educational services. These learning opportunities include Honors courses, Honors scholarships, the Honors Forum Lecture Series, Phoenix Symphony performances, and Districtwide co-curricular activities.

The Phoenix College Honors Program provides opportunities for bright and talented students to make the most of their higher education through access to small classes, outstanding faculty, campus involvement, community service, travel, and interaction with other like-minded students. We promote intellectual, social, and personal development to help prepare you for an increasingly complex world.

There are two pathways into the Honors Program. Recent high school graduates may qualify by graduating with a 3.25 GPA or higher. Current Phoenix College students qualify once they have earned at least 12 college-level Maricopa credits and carry a cumulative GPA of 3.25 or higher. See the application for complete eligibility requirements. Qualified students must apply for the Program in the Honors office (Room HB-111).

To graduate with Honors Program designation, Honors students must complete at least 15 semester hours of Honors courses at Phoenix College and earn a cumulative GPA of 3.5. Call 602.285.7305 for more information.

Honors offerings vary from semester to semester: check with the Honors Office to verify.

## MILITARY SCIENCE

CONTACT: Mr. B. Williams (602) 285.7234
Reserve Officers Training Corps (ROTC) - Aerospace Studies/Military Science
Through an arrangement with Arizona State University at Tempe, students at Phoenix College can take freshman and sophomore year classes in ROTC. Students register for the classes at Phoenix College and take the courses at Arizona State University. The goal of the ROTC classes is to provide a foundation of military knowledge and skills needed by junior officers in the military. Students may take ROTC credit in (Army) Military Science or (Air Force) Aerospace Studies. For further information, see below or contact Army ROTC at (480) 965.3318 or Air Force ROTC at (480) 965.3181.

## AEROSPACE (AIR FORCE)

Purpose: The Department of Aerospace Studies curriculum consists of the general military course and history for freshmen and sophomores (AES 101, 102, 201, 202) and the Professional Officer Course for juniors and seniors (AES 301, 302, 401, 402).

General Qualifications: A man or woman entering Air Force Reserve Officer Training Corps (AFROTC) must be the following: (1) a citizen of the United States (noncitizens may enroll, but must obtain citizenship before commissioning); (2) of sound physical condition; and (3) at least 17 years of age for scholarship appointment or admittance to the Professional Officer Course (POC). Additionally, scholarship recipients must be able to fulfill commissioning requirements by age 25 . If designated for flying training, the student must be able to complete all commissioning requirements prior to age 26 and a half; other categories must be able to complete all commissioning requirements before age 30 .
Four-Year Program (GMC and POC). A formal application is not required for students entering the fouryear program. A student may enter the program by simply registering for one of the general military course (GMC) classes at the same time and in the same manner as other courses. GMC students receive two semester hours of credit for each AES 100 and 200 class completed a total of eight semester hours. GMC students not on AFROTC scholarship incur no military obligation. Each candidate for commissioning must pass an Air Force aptitude test and a physical examination and be selected by a board of Air Force officers. If selected, the student then enrolls in the POC the last two years of the Air Force ROTC curriculum. Students attend a four-week field training course at an Air Force base normally between the sophomore and junior year. Upon successful completion of the POC and the college requirements for a degree, the student is commissioned in the U.S. Air Force as a second lieutenant. The new officer then enters active duty or may be granted an educational delay to pursue graduate work. Two-Year Program (POC). The basic requirement for entry into the two-year program is that the student have two academic years of college work remaining, either at the undergraduate or graduate level. Applicants seeking enrollment in the two-year program must pass an Air Force aptitude and medical examination and be selected by a board of Air Force officers. After successfully completing a six- week field training course at an Air Force base, the applicant may enroll in the professional officer course in the AFROTC program. Upon completion of the POC and the college requirements for a degree, the student is commissioned.

Qualifications for Admittance to the Professional Officer Course (POC). (1) The four-year student must successfully complete the general military course and the four-week field training course. (2) The two-year applicant must complete a six-week field training course. (3) All students must pass the Air Force Officer Qualifying Test (AFOQT). (4) All students must pass the Air Force physical examination. (5) All students must maintain the minimum GPA required by the college.

Pay and Allowances. POC members in their junior and senior years receive $\$ 200$ per month for a maximum of 20 months of POC attendance. Students are also paid to attend field training. In addition, uniforms, housing, and meals are provided during field training at no cost to the student. Students are reimbursed for travel to and from field training.

Scholarships. AFROTC offers scholarships annually to outstanding young men and women on a nationwide competitive basis. Scholarships cover full college tuition for resident and non-resident students and provide an allowance for books, fees, supplies, and equipment, and a monthly tax-General allowance of $\$ 200$. Scholarships are available on a four-, three, and two-year basis. To qualify for the four-year scholarship, a student must be a U.S. citizen and submit an application before December 1 of the senior year in high school. Interested students should consult their high school counselors or call AFROTC at ASU for application forms to be submitted to: HQ. AFROTC, Maxwell AFB, Alabama 36112-6633. Male and female students enrolled in AFROTC at ASU are eligible for three- and two-year scholarships. Those students interested must apply through the Department of Aerospace Studies. Consideration is given to academic grades, the score achieved on the AFOQT, and physical fitness. A board of officers considers an applicant's personality, character and leadership potential. Flight Screening Program (FSP). A cadet designated to enter U.S. Air Force Undergraduate Pilot Training after graduation participates in FSP after the junior year in college. This program trains and motivates pilot candidates.

## MILITARY SCIENCE (ARMY)

Purpose: The Department of Military Science, or Army ROTC (Reserve Officers' Training Corps), is a four-year or two-year program that consists of the basic and the advanced courses. It is one of the best leadership courses in the country and is part of a student's college curriculum. The curriculum prepares students with the tools, training, and experiences that will help them succeed in any competitive environment. During classes and field training, students learn firsthand what it takes to lead others and motivate groups and how to conduct missions as an officer in the U.S. Army. Upon successful completion of the advanced course and college graduation, students will earn a commission in the U.S. Army as a second lieutenant and become a leader for life. In addition to the military science curriculum, courses in national defense studies are both an integral and parallel source of the department's program.

## GENERAL INFORMATION

Basic Course. Any student who is enrolled in ASU (or approved by the professor of military science) can enroll in military science basic courses. The basic course (MIS 101, 102, 201, and 202) takes place during the first two years in college as elective courses. Each course includes a lab each semester. Students learn basic military skills and the fundamentals of leadership and begin the groundwork toward becoming an Army leader. Students may enroll in basic course classes without a military commitment. Leader's Training Course (Two-Year Program). Scholars who want to achieve something even greater than a college degree and aspire to be leaders may join the Army ROTC program by attending a fourweek summer Leader's Training Course (LTC) that consists of intense classroom and field training. This course is an accelerated version of the two-year basic course listed above and qualifies students for enrollment in the advanced course provided they have two years of college remaining (undergraduate or graduate). Students who attend this course receive a stipend; transportation to and from Fort Knox, Kentucky; housing; and meals. Those who want to receive four semester hours credit for this course may enroll in the ASU summer program, MIS 205 Leader's Training Course. Students who attend this course may also qualify for a two-year scholarship upon successful completion.
Advanced Course. The advanced course takes place during a student's last two years in college as elective courses (MIS 301, 302, 401, and 402). Each course includes a lab each semester plus a summer leadership camp. Students learn advanced military tactics and gain experience in team organization, planning, and decision making. To benefit from the leadership training in the advanced course, all

+ indicates course has prerequisites and/or corequisites. ++ indicates any suffixed courses.
students must have completed either the basic course (four-year program) or have attended the LTC (two-year program). Students must meet the following qualifications to be enrolled in the advanced course:
- be a citizen of the United States;
- be of sound physical condition and pass the U.S. Army physical fitness test;
- meet the required professional military educational requirements;
- be at least 17 years of age for entrance into the advanced course and be able to complete all commissioning requirements before age 30 (which can be waivered to age 32); and
- commit to accept a commission and serve as an officer in the U.S. Army on Active Duty or in a Reserve Component (U.S. Army Reserve or Army National Guard) upon college graduation.

Leadership Development and Assessment Course (Advanced Course Program). Every ROTC cadet who enters into the Advanced Course attends the Leader Development and Assessment Course. It is a fourweek summer course designed to evaluate and train all Army ROTC cadets. This course normally takes place between the junior and senior years of college and is conducted at Fort Lewis, Washington. Students who attend this course receive a stipend, transportation to and from camp, housing, and meals. Those who want to receive four semester hours credit for this course may enroll in the ASU summer program, MIS 303 National Advanced Leadership Camp.

The Commitment. Army ROTC cadets who receive an Army ROTC scholarship or enter the Army ROTC Advanced Course must commit to being commissioned a second lieutenant in the U.S. Army and to completing a period of service with the Army. Students may serve full-time on active duty, part-time in either the U.S. Army Reserve or the Army National Guard, or a combination of full-time and part-time.

Scholarship Programs. Students who accept an Army ROTC scholarship must also commit to accepting a commission and serving as an Officer in the U.S. Army on Active Duty or in a Reserve Component (U.S. Army Reserve or Army National Guard) upon college graduation. Scholarships provide either 100 percent costs for tuition, labs, and fees; or, costs for room and board up to the amount of tuition costs. In addition, scholarship students receive a book stipend of $\$ 450$ per semester. Army ROTC offers two-, three-, and four-year scholarship programs to outstanding young men and women based on the time remaining to complete a degree.

Scholarships are awarded based on a student's merit and grades, not financial need.
High School four-year: The national high school four-year, active-duty scholarship is for high school students planning on attending a four-year college program. Applications should be submitted by November 15. Applications submitted past that date are considered; however, late applications may not be as competitive due to selection time frames. Applications may be obtained at armyrotc.com/edu/azstate/index.htm.

- College four-year: These active-duty scholarships are for college freshmen in their First-Year of a five-year undergraduate plan. Contact the department for more information.
- College three- and two-year: These active-duty scholarships are for students already enrolled in a college or university with three or two academic years remaining.
- Guaranteed Reserve Forces Duty: These reserve component, two- and three-year scholarships are strictly dedicated for those students desiring to serve in the U.S. Army Reserve or Army National Guard.
- Living Expenses. Scholarship and all Advanced Course students also receive a monthly, nontaxable living allowance for each school year. The amount depends on a student's level in the ROTC curriculum: freshman: \$300; sophomore: \$350; junior: \$450; senior: $\$ 500$ per month.

Simultaneous Membership Program. Under this program, ROTC students may simultaneously be members of the Army Reserve or the National Guard. The combination of advanced course living allowance and pay for Army Reserve or National Guard participation can provide between $\$ 550$ and $\$ 1,000$ per month.

Graduate and Professional Studies Programs. Graduate students may also enroll in the ROTC program. Outstanding students who desire to earn graduate or professional degrees may request and receive an educational, active-duty delay of up to four years.

Nurse Program. By joining Army ROTC, nursing students can enhance their leadership skills and critical-thinking abilities while obtaining financial support. Besides great scholarship opportunities, Army ROTC nurse cadets may also qualify for cash bonuses. In addition, nurse cadets have an opportunity for a unique summer nursing experience. The paid, three-week Nurse Summer Training Program assigns cadets to Army hospitals throughout the U.S. and Germany. This program is designed to introduce nurse cadets to the Army Medical Department and to the roles and responsibilities of an Army nurse. Cadets work under the supervision of an Army nurse and obtain hands-on experience. This one-on-one clinical experience allows students to hone their clinical skills, develop their problemsolving techniques, and become comfortable with developing their professional skills as a member of the U.S. Army Healthcare Team.

Being an Army nurse provides opportunities not found in the civilian world. Army nurses also have the opportunity to train and serve in a variety of specialties.

# Maricopa County Community College District (MCCCD) <br> 2023-2024 General Academic Policies for Associate Degrees Designed For University Transfer 

The following academic policies govern the associate degrees designed for university transfer: Associate in Arts (AA); Associate in Arts, Elementary Education (AAEE); Associate in Arts, Fine Arts (AAFA); Associate in Business-General Requirements (ABUS-GR); Associate in Business-Special Requirements (ABUS-SR); and Associate in Science (AS). Note that academic policies that govern the Associate in General Studies (AGS) and Associate in Applied Science (AAS) degrees are listed separately, with the requirements for each of those degrees.

- The graduation policies within the general catalog must be satisfied (administrative regulation 2.3.9). First Year Experience required (FYE101 or FYE103)
- Minimum semester credits for completion vary slightly by degree and specific emphasis (when applicable). Refer to the Program (Degree) Search at curriculum.maricopa.edu for credit minimums for individual degree programs.
- Credits completed toward these minimums must be in courses numbered 100 or above with a grade of "C" or better. These credits must include a minimum of $35^{*}$ in satisfaction of the requirements of the Arizona General Education Curriculum (AGEC) along with a maximum of 6 credits towards MCCCD's Additional Requirements.
- Detailed degree requirements are maintained by the Center for Curriculum and Transfer Articulation (CCTA); refer to the program search at curriculum.maricopa.edu.


## General Education Requirements:

- The AGEC requirements include a designated number of courses approved for each of the following areas:
- First Year Composition [FYC]
- Mathematical Applications [MA]
- Computer/Statistics/Quantitative Applications [CS] (not required for Associate in Science)
- Literacy and Critical Inquiry [L]
- Humanities, Arts and Design [HU]
- Social-Behavioral Sciences [SB]
- Natural Sciences: Science Quantitative [SQ], Science General [SG]
- Awareness Area: Cultural Diversity in the U.S. [C]
- Awareness Area: Global [G] or Historical [H] Awareness
- Note that there are three different AGECs each aligning with a different subset of associate degrees--AGEC-A for the AA, AAEE, and AAFA degrees; AGEC-B for the ABUS-GR and ABUS-SR degrees; and AGEC-S for the AS degree. For some types of AGECs/Associate degrees, students are allowed to choose from a broad list of courses; for others the courses are more restricted or even specified.
- A single course can simultaneously count toward one or more areas in the following. Awareness Areas of [C]; and/or $[\mathrm{H}] /[\mathrm{G}]$ may be shared with AGEC requirements. MCCCD Additional Requirements e.g. Oral Communication and Critical Reading may be shared with other AGEC requirements. For example, CRE101 may be used to satisfy both the MCCCD Reading Requirement and [L] in the AGEC core. For some degree types, other lower division courses can be used to meet the degree requirements.
- While multiple requirements can be met with a single course, the credits are only counted one time toward the required minimum for the degree. Except for the AGEC-S, a single course cannot be used to satisfy more than one AGEC core requirement, with the exception of Awareness Areas. For example, a course cannot be used to satisfy [HU] and [SB], but a course can be used to meet [HU] and [C], [G] and/or [H].
- The AGEC-A and AGEC-B require a minimum of 35 credits* and the AGEC-S requires a minimum of 36 credits*; however, the AGEC credit count within the total credits for a degree may be under these minimums if courses are also applied toward Required Courses or Restricted Electives and the credits are counted in those areas. Awareness Areas and MCCCD's Additional Requirements may also be shared with AGEC Core Areas. Optimizing credits in this way is often recommended because some programs and universities limit transferable credits at 64.
- All MCCCD courses applied to the AGEC must be completed with a grade of "C" or better. All MCCCD courses applied to the AGEC must be accepted for transfer credit as a direct equivalent, departmental elective, or general elective credit at ASU, NAU, and UAZ according to the Course Equivalency Guide for the academic year in which the course was taken. Courses applied exclusively to the Bachelor of Applied Science are ineligible for inclusion in the AGEC.


## Coursework beyond General Education:

- For some degree types, the additional coursework required to complete the degree is specified while others offer the student more latitude. See degree checksheets for more complete description. Consultation with an academic advisor about course selection is always recommended.
- Oral Communication and Critical Reading are MCCCD Additional Requirements required for Associate in Arts; Associate in Arts, Elementary Education; Associate in Arts, Fine Arts; and Associate in Science degrees. Refer to the Program (Degree) Search at curriculum.maricopa.edu for acceptable options to meet these requirements for individual degree programs.
- Within the Restricted Electives, course recommendations are made for specific transfer institutions. Students should select a transfer plan (group of courses) based on their intended transfer institution. However, not all transfer institutions are reflected in these recommendations. Therefore, students may instead meet the minimum number of Restricted Elective credits using a combination of courses from the transfer plans listed. Restricted Electives should be selected in consultation with an academic, faculty, or program advisor.
- Note that some majors require up to a 4th semester proficiency (202-course level) in a non-English language. Students should consult with an academic advisor to discuss options to complete these requirements.
- General Electives may need to be selected to meet the minimum total credits required for the degree. Maricopa courses and external courses evaluated as Maricopa equivalents, departmental electives, (e.g., HISELC for a history elective), or general electives (GENELC) that are numbered 100 level or higher, and completed with a grade of " C " or higher, may be applied in the elective area, regardless of potential transferability to other institutions. It is recommended, however, that students planning to transfer to a baccalaureate-granting institution meet these general elective requirements with courses that are transferable and applicable to their intended university degree. Transfer advisement information is accessible on the following websites: aztransfer.com/tools, curriculum.maricopa.edu, as well as those of individual universities. For appropriate course selection, students should consult with an academic advisor.
- Any course cross-referenced under another prefix(es) (for example ENH291/EDU291-Children's Literature) covers identical content and its credits can only be counted once toward requirements.


## Transfer Credit from Institutions Outside of MCCCD:

- Credits transferred from outside of MCCCD must be at a grade of "C" ( 2.0 on a 4.0 scale) or better. Transfer credit graded pass/fail or pass/no credit may be used to satisfy AGEC requirements if documentation collected by the community college indicates that this was the only grading option available and that the Pass grade ("P") is equivalent to a "C" or better.
- External courses evaluated either as equivalent to an MCCCD course or as elective credit may be applied toward the minimum credits for degree completion.
- The AGEC (Arizona General Education Curriculum) designations of courses completed at other Arizona public colleges or universities will be applied as listed on AZTransfer's Course Equivalency Guide (CEG) for the semester(s) in which the course(s) were completed. If a transcript evaluation determines there is no MCCCD direct equivalency to a course from another Arizona public college or university, applicability to AGEC and/or associate degree requirements will be based on the source institution's AGEC designation for the semester in which the course was completed.
- Courses from private, out-of-state, and/or online institutions (i.e., outside of the Arizona Transfer System composed of Arizona's public community colleges, tribal colleges and universities) will be applied toward AGEC and/or associate degree requirements based on the courses' evaluated MCCCD equivalence. If courses are not directly equivalent, the credit may be articulated as a departmental elective, and if deemed appropriate, may have a general education designation applied to the course.
- Credit awarded at a Maricopa Community College through prior learning assessment is transferable to the other colleges in the district but is not necessarily transferable to other colleges and universities. No more than 20 such assessed semester credit hours may be applied toward AGEC, and no more than 30 credits (including up to 20 toward AGEC) may be applied toward a degree.


## Completion and Transfer:

- Completion of the AGEC with a minimum Grade Point Average of at least 2.0 on a 4.0 scale for Arizona residents and 2.50 for non-residents meets Arizona public university general admission requirements. It does not ensure admission to specific university majors or programs with selective admission processes and/or limited enrollment.
- While MCCCD's associate degrees are designed to facilitate a seamless transfer to other Arizona institutions, courses may be transferable and/or meet associate degree requirements, but may not necessarily meet the specific requirements of a particular degree, major, or area of emphasis at another institution.

Students planning to transfer to another college or university are urged to refer to university requirements and academic advisors from both institutions to be certain that all their selected coursework is applicable to the requirements of their intended transfer degree and within their allowed transferable credit limit. For some majors, the statewide Common Course matrix and AZTransfer Major Guides at aztransfer.com/tools/ and/or university transfer guides can also provide some guidance. For appropriate course selection, students should consult with an academic advisor.
*Credit minimums may be lower if students have transfer credit from ASU, NAU or UAZ
for a single course that meets First Year Composition in full. See notes on individual degree policies.

Maricopa County Community College District<br>(MCCCD) 2023-2024 Bachelor of Arts (BA) Degree

## Description

The Maricopa County Community College District Bachelor of Arts (BA) degree requires a minimum of 120 semester credits for the program of study; minimum total credits vary by specific major. Refer to the Program (Degree) Search at curriculum.maricopa.edu for credit minimums for individual degree programs. A minimum grade point average of 2.0 and course grades of C or higher are required to earn the degree.

The Bachelor of Arts degree includes the following components:
I. Program Prerequisites (if applicable)
II. Required Courses
III. Restricted Electives
IV. Arizona General Education Curriculum for Arts (AGEC-A)
V. MCCCD Additional Requirements (Oral Communication)
VI. General Electives (if needed to reach minimum credits for degree)

## Purpose of the Degree

The Bachelor of Arts (BA) degree is an undergraduate college degree that requires students to complete a core of general education courses and then focus remaining coursework on a core and electives in a major such as fine arts and humanities, business, or education. The Bachelor of Arts degree prepares students to continue their education at the graduate level, complete requirements for disciplinary certification, and/or pursue a wide variety of careers.

## Degree Requirements

The requirements for the Bachelor of Arts (BA) follow. No versions of the Bachelor of Arts require fewer than a minimum of 120 credits; however, minimum credits for a BA may vary by specific major. Additionally, a minimum of 30 credits of coursework must be completed at the upper-division ( $300 / 400$ level). Refer to the Program (Degree) Search at curriculum.maricopa.edu for credit minimums by major.

The following websites identify the courses that apply to the different General Education Core and Awareness Areas: AGEC$\underline{A}$ and the AGEC matrix. Courses available for both Areas during a current or upcoming semester can also be found using the "Find a Class" tool on maricopa.edu and on each MCCCD college's website.

## Requirements

Credits

## I. Program Prerequisites

## Number varies

Program prerequisites for the Bachelor of Arts degree vary by major. Refer to the Program
(Degree) Search at curriculum.maricopa.edu for specific courses and credit minimums by major.

## II. Required Courses

Number varies
Students who have not already earned an associate or higher degree, must complete FYE101 (1) OR FYE103 (3) and select the required courses for the specific major. Refer to the Program (Degree)
Search at curriculum.maricopa.edu for specific courses and credit minimums by major.

## III. Restricted Electives

## Number varies

Restricted electives for the Bachelor of Arts degree vary by specific major. Refer to the Program (Degree) Search at curriculum.maricopa.edu for specific courses and credit minimums by major.

## IV. Arizona General Education Curriculum--Arts (AGEC-A)

up to 44

> The AGEC-A requires a minimum of 35 credits ( 32 if FYC is met by single transfer course*). However, prerequisite/required/restricted elective courses may also meet AGEC-A requirements but are only counted once toward the total credits for the degree. Therefore, the AGEC-A may be met with fewer than 35 credits (fewer than 32 if FYC is met by single transfer course) * as long as all requirements listed in this section (IV) are completed.
> Courses applied to meet AGEC-A requirements vary by major. Refer to the Program (Degree) Search at curriculum.maricopa.edu for specific course requirements. Some courses may be met by Required Courses or Restricted Electives. Some of these courses also have Awareness Areas designations and can be used to satisfy [C], [G] and/or [H] requirement(s) as well other AGEC requirements, Required Course(s) or Restricted Elective(s). Courses may meet more than one requirement but are only counted once toward the total credits for the degree. AGEC designations are subject to change.

See AGEC matrix for each course's value(s) in the semester it is taken.
A. First-Year Composition FYC] .................................................................................... 6*

ENG101 OR ENG107.
AND ENG102 OR ENG108...................................................................................... (3*)
B. Literacy and Critical Inquiry [L].................................................................................. 3

May be met by CRE101 among other courses
C. Mathematical Applications [MA]......................................................................................
Requires a course in college mathematics (MAT140, MAT141, MAT142, MAT145, MAT146) or college algebra (MAT150, MAT151, MAT152, MAT155, MAT156) or precalculus (MAT187) or higher [MA]-approved general education course.
D. Computer/Statistics/Quantitative Applications [CS]........................................................ 3
E. Humanities, Arts and Design [HU]................................................................................ 6

Students are encouraged to choose course work from more than one discipline.
F. Social-Behavioral Sciences [SB].

6
Students are encouraged to choose course work from more than one discipline.
G. Natural Sciences $[S Q / S G]$

The lecture courses selected for Natural Sciences must include or be accompanied by the corresponding laboratory courses for a total of four credits each. Credits for lecture and lab components may be combined or each may carry separate credit. At least four credits must be designated as SQ-Science Quantitative. Eight credits of SG-Science General will not satisfy this requirement.
H. Awareness Areas ..... 0-6
Courses may be used to satisfy other AGEC requirements and one or more AwarenessArea(s). (See AGEC matrix for current course values.)

1. Cultural Diversity in the United States [C] ..... (0-3)
2. Global Awareness [G] OR Historical Awareness [H] ..... (0-3)
V. MCCCD Additional Requirements ..... 0-3As noted below, courses in this area may also be applied toward AGEC-A requirements.A. Oral Communication
$\qquad$(0-3)COM100 [SB] Introduction to Human Communication ORCOM110 [SB] Interpersonal Communication OR
COM225 [L] Public Speaking OR
COM230 [SB] Small Group Communication (3 credits) ORCOM100AA \& COM100AB \& COM100AC [SB] (3 credits) ORCOM110AA \& COM110AB \& COM110AC [SB] (3 credits) ORCOM263 [SB], [C], [G] Elements of Intercultural Communication (3 credits)

## VI. General Electives

## Number varies

Select courses 100 -level or higher if needed to complete a minimum of 120 semester credits. Ideally, students should select courses that meet requirements for their major/area of interest and graduate-level transfer institution.

Maricopa courses and external courses evaluated as Maricopa equivalents, departmental electives (e.g., HISELC for a history elective), or general electives (GENELC). For appropriate course selection, students should consult with an academic advisor.

[^3]Maricopa County Community College District<br>(MCCCD) 2023-2024 Bachelor of Science (BS) Degree

## Description

The Maricopa County Community College District Bachelor of Science (BS) degree requires a minimum of 120 semester credits for the program of study; minimum total credits vary by specific major. Refer to the Program (Degree) Search at curriculum.maricopa.edu for credit minimums for individual degree programs. A minimum grade point average of 2.0 and course grades of C or higher are required to earn the degree.

The Bachelor of Science degree includes the following components:

$$
\begin{aligned}
\text { I. } & \text { Program Prerequisites (if applicable) } \\
\text { II. } & \text { Required Courses } \\
\text { III. } & \text { Restricted Electives } \\
\text { IV. } & \begin{array}{l}
\text { Arizona General Education Curriculum for Arts (AGEC-A) OR Arizona General Education } \\
\text { Curriculum for Science (AGEC-S) (refer to the Program (Degree) Search at }
\end{array} \\
& \begin{array}{l}
\text { curriculum.maricopa.edu for the specific AGEC requirements by major) }
\end{array} \\
\text { V. } & \text { MCCCD Additional Requirements (Oral Communication) } \\
\text { VI. } & \text { General Electives (if needed to reach minimum credits for degree) }
\end{aligned}
$$

## Purpose of the Degree

A Bachelor of Science (BS) is an undergraduate college degree that requires students to complete a core of general education courses and then includes remaining coursework on requirements and electives that have an emphasis on math and science. The Bachelor of Science prepares students to continue their education in pursuit of a graduate degree, complete requirements for disciplinary certification, and/or pursue careers in a variety of fields.

## Degree Requirements

The requirements for the Bachelor of Science (BS) follow. No versions of the Bachelor of Science require fewer than a minimum of 120 credits; however, minimum credits for a BA may vary by specific major. Additionally, a minimum of 30 credits of coursework must be completed at the upper-division (300/400 level). Refer to the Program (Degree) Search at curriculum.maricopa.edu for credit minimums by major.

It is recommended that students select courses that meet more than one general education and/or awareness area requirement. Doing so will maximize the number of math and science electives the student can take as part of the student's Bachelor of Science degree.

The following websites identify the courses that apply to the different General Education Core and Awareness Areas: AGECA, AGEC-S, and the AGEC matrix. Courses available for both Areas during a current or upcoming semester can also be found using the "Find a Class" tool on maricopa.edu and on each MCCCD college's website.

## Requirements

## Credits

## I. Program Prerequisites

Number varies
Program prerequisites for the Bachelor of Science degree vary by major. Refer to the Program
(Degree) Search at curriculum.maricopa.edu for specific courses and credit minimums by major.

## II. Required Courses

## Number varies

Students who have not already earned an associate or higher degree, must complete FYE101 (1) OR FYE103 (3) and select the required courses for the specific major. Refer to the Program (Degree) Search at curriculum.maricopa.edu for specific courses and credit minimums by major.
III. Restricted ElectivesRestricted electives for the Bachelor of Science degree vary by specific major. Refer to theProgram (Degree) Search at curriculum.maricopa.edu for specific courses and credit minimumsby major.Number varies
IV. Arizona General Education Curriculum--Arts (AGEC-A) ..... up to 44
The AGEC-A requires a minimum of 35 credits ( 32 if FYC is met by single transfer course*). However, prerequisite/required/restricted elective courses may also meet AGEC-A requirements but are only counted once toward the total credits for the degree. Therefore, the AGEC-A may be met with fewer than 35 credits (fewer than 32 if FYC is met by single transfer course) * as long as all requirements listed in this section (IV) are completed.
Courses applied to meet AGEC-A requirements vary by major. Refer to the Program (Degree) Search at curriculum.maricopa.edu for specific course requirements. Some courses may be met by Required Courses or Restricted Electives. Some of these courses also have Awareness Areas designations and can be used to satisfy [C], [G] and/or [H] requirement(s) as well other AGEC requirements, Required Course(s) or Restricted Elective(s). Courses may meet more than one requirement but are only counted once toward the total credits for the degree. AGEC designations are subject to change.
See AGEC matrix for each course's value(s) in the semester it is taken.
A. First-Year Composition [FYC]. ..... 6*
ENG101 OR ENG107 ..... (3*)
AND ENG102 OR ENG108 ..... (3*)
B. Literacy and Critical Inquiry [L] ..... 3
Students are strongly encouraged to choose an [L] course that also has [HU] or [SB]designation or to use COM225 from the Maricopa Additional Requirements Area tosatisfy the [L] requirement. It may also have been approved to satisfy one or moreAwareness Areas ([C], [G], [H]). (AGEC designations are subject to change. SeeAGEC matrix for each course's value(s) in the semester it is taken.)
C. Mathematical Applications [MA] ..... 3-6
Requires a course in college mathematics (MAT140, MAT141, MAT142, MAT145, MAT146) or college algebra (MAT150, MAT151, MAT152, MAT155, MAT156) or precalculus (MAT187) or higher [MA]-approved general education course.
D. Computer/Statistics/Quantitative Applications [CS]. ..... 3
E. Humanities, Arts and Design [HU]. ..... 6
Students are encouraged to choose course work from more than one discipline.
F. Social-Behavioral Sciences [SB]6
Students are encouraged to choose course work from more than one discipline.
G. Natural Sciences [SQ/SG]
The lecture courses selected for Natural Sciences must include or be accompanied by8the corresponding laboratory courses for a total of four credits each. Credits forlecture and lab components may be combined or each may carry separate credit. Atleast four credits must be designated as SQ-Science Quantitative. Eight credits ofSG-Science General will not satisfy this requirement.
H. Awareness Areas0-6
Courses may be used to satisfy other AGEC requirements and one or more AwarenessArea(s). (See AGEC matrix for current course values.)

1. Cultural Diversity in the United States [C].(0-3)
2. Global Awareness [G] OR Historical Awareness [H] ..... (0-3)

## IV. Arizona General Education Curriculum--Science (AGEC-S)

up to 56
The AGEC-S requires a minimum of 36 credits ( 33 if FYC is met by single transfer course*). However, prerequisite/required/restricted elective courses may also meet AGEC-S requirements and credits count once toward the total for the degree. Therefore, the AGEC-S may be met with fewer than 36 credits ( 33 if FYC is met by single transfer course) * as long as all requirements listed in this section (IV) are completed.

Courses applied to meet AGEC-S requirements vary by major. Refer to the Program (Degree) Search at curriculum.maricopa.edu for specific course requirements. Some courses may be met by Required Courses or Restricted Electives. Some of these courses also have Awareness Areas designations and can be used to satisfy [C], [G] and/or [H] requirement(s) as well as other AGEC requirements, Required Course(s) or Restricted Elective(s). Courses may meet more than one requirement but are only counted once toward the total credits for the degree. AGEC designations are subject to change.

## Special Academic Policies that Govern the AGEC-S

- The AGEC-S does not require a course with [CS] Computer/Statistics designation.
- Unlike the AGEC-A and AGEC-B, the same course is allowed to satisfy the ([L] and [HU]) or ([L] and [SB]) areas of the AGEC-S's Core Area. The credits for such a "shared" course are only counted one time toward the required minimum for the degree.

See AGEC matrix for each course's value(s) in the semester it is taken.
A. First-Year Composition [FYC]..

ENG101 OR ENG107 AND
ENG102 OR ENG108
B. Literacy and Critical Inquiry [L].....................................................................................................
Students are strongly encouraged to choose an [L] course that also has [HU] or [SB] designation or to use COM225 from the Maricopa Additional Requirements Area to satisfy the [L] requirement. It may also have been approved to satisfy one or more Awareness Areas ([C], [G], [H]). (AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.)
C. Mathematical Applications [MA].

Requires the first semester of calculus courses designed for scientists and engineers (MAT220 or MAT221) or any other [MA] designated course for which Calculus I is a prerequisite.
D. Humanities, Arts and Design [HU]

For the AGEC-S, a single course with both [HU] and [L] designations may satisfy both Areas. Note that some of these courses also have Awareness Areas designations and can be used to satisfy [C], [G] and/or [H] requirement(s) as well as their respective Core Area(s). (AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.)
E. Social-Behavioral Sciences [SB]. $\qquad$
For the AGEC-S, a single course with both [SB] and [L] designations may satisfy both Areas. Note that some of these courses also have Awareness Areas designations and can be used to satisfy [C], [G] and/or [H] requirement(s) as well as their respective Core Area(s). (AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.)
F. Natural Sciences [SQ/SG]

Students must complete eight (8) to ten (10) credits of General Chemistry, University Physics, General Biology for Majors, or Physical and Historical Geology. Consult with an academic advisor for specific requirements of university transfer majors for guidance.

```
[(CHM150 or CHM151) \& CHM151LL] or
CHM150AA or CHM151AA General Chemistry I AND
[CHM152 \& CHM152LL] or CHM152AA General Chemistry II OR
PHY115 or PHY121 University Physics I AND
PHY116 or PHY131 University Physics II
OR
BIO181 or BIO181XT General Biology (Majors) I AND
BIO182 or BIO182XT General Biology (Majors) II OR
GLG101IN Introduction to Geology I - Physical or GLG101 Introduction to
Geology I - Physical Lecture and GLG103 Introduction to Geology I -
Physical Lab
AND
GLG102IN Introduction to Geology II - Historical or GLG102 Introduction to
Geology II - Historical Lecture and GLG104 Introduction to Geology II -
Historical Lab
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| G. | Subject Options - Math/Science .................................................................................... <br> Select six (6)- ten (10) additional math and/or science credits that meet requirements |
| :--- | :--- | :--- |
| for the selected major. |  |

Select Mathematics course(s) [MAT] above Calculus I and/or Computer Science course(s) [CSC] and/or Science courses from the following disciplines: Astronomy, Biology, Botany, Chemistry, Engineering, Environmental Science, Geology, Physical Geography, Physics, Zoology (MCCCD prefixes AST, BIO, CHM, ECE, EEE, ENV, GLG, GPH, and/or PHY)
$\qquad$
Courses may be used to satisfy other AGEC requirements and one or more Awareness Area(s). (See AGEC matrix for current course values.)

1. Cultural Diversity in the United States [C]
2. Global Awareness [G] OR Historical Awareness [H].
V. MCCCD Additional Requirements

As noted below, courses in this area may also be applied toward AGEC-A requirements.
A. Oral Communication

COM100 [SB] Introduction to Human Communication OR
COM110 [SB] Interpersonal Communication OR
COM225 [L] Public Speaking OR
COM230 [SB] Small Group Communication (3 credits) OR
COM100AA \& COM100AB \& COM100AC [SB] (3 credits) OR
COM110AA \& COM110AB \& COM110AC [SB] (3 credits) OR
COM263 [SB], [C], [G] Elements of Intercultural Communication (3 credits)
VI. General Electives.

Number varies
Select courses 100-level or higher if needed to complete a minimum of 120 semester credits. Ideally, students should select courses that meet requirements for their major/area of interest and graduate-level transfer institution.

Maricopa courses and external courses evaluated as Maricopa equivalents, departmental electives (e.g., HISELC for a history elective), or general electives (GENELC). For appropriate course selection, students should consult with an academic advisor.

TOTAL
120***
*FYC may be met with fewer than 6 credits if a student has transfer credit from ASU, NAU or UAZ for a single course that meets FYC in full.
**(0 only if shared with HU or SB)
*** 120 semester credits is the minimum of 120 credits; however, minimum credits for a BA may vary by specific major. Refer to the Program (Degree) Search at curriculum.maricopa.edu for credit minimums by major.

## Maricopa County Community College District

(MCCCD) 2023-2024 Bachelor of Applied Science (BAS)

## Description

The Maricopa County Community College District Bachelor of Applied Science (BAS) degree requires a minimum of 120 semester credits for the program of study; minimum total credits vary by specific major. Refer to the Program (Degree) Search at curriculum.maricopa.edu for credit minimums for individual degree programs. A minimum grade point average of 2.0 and course grades of C or higher are required to earn the degree.

The Bachelor of Arts degree includes the following components:
I. Program Prerequisites (if applicable)
II. Required Courses
III. Restricted Electives
IV. Arizona General Education Curriculum for Arts (AGEC-A)
V. MCCCD Additional Requirements (Oral Communication)
VI. General Electives (if needed to reach minimum credits for degree)

## Purpose of the Degree

A Bachelor of Applied Science is an undergraduate college degree that focuses on providing hands-on experiences and incorporating job-related skills into the classroom. It is designed to be flexible in order to accommodate and meet the unique demands of industry in specific workforce sectors. Bachelor of Applied Science degrees typically build on the curriculum requirements for an Associate of Applied Science (AAS) degree, meaning that all of the requirements for the AAS degree are either included in, or receive full recognition and credit within, the BAS program requirements. Students in the BAS take a majority of their courses in the applied sciences, specializing in a specific area and the degree is designed to prepare students for employment and career advancement, as well as can provide the foundation for graduate school.

## Degree Requirements

The requirements for the Bachelor of Applied Science (BAS) follow. No versions of the Bachelor of Applied Science require fewer than a minimum of 120 credits; however, minimum credits for a BAS may vary by specific major. Additionally, a minimum of 30 credits of coursework must be completed at the upper-division (300/400 level). Refer to the Program (Degree) Search at curriculum.maricopa.edu for credit minimums by major.

The following websites identify the courses that apply to the different General Education Core and Awareness Areas: AGECA and the AGEC matrix. Courses available for both Areas during a current or upcoming semester can also be found using the "Find a Class" tool on maricopa.edu and on each MCCCD college's website.

## Requirements

## Credits

## I. Program Prerequisites

Number varies
Program prerequisites for the Bachelor of Arts degree vary by major. Refer to the Program (Degree) Search at curriculum.maricopa.edu for specific courses and credit minimums by major.

## II. Required Courses

## Number varies

Students who have not already earned an associate or higher degree, must complete FYE101 (1) OR
FYE103 (3) and select the required courses for the specific major. Refer to the Program (Degree)
Search at curriculum.maricopa.edu for specific courses and credit minimums by major.

## III. Restricted Electives

Number varies
Restricted electives for the Bachelor of Arts degree vary by specific major. Refer to the Program (Degree) Search at curriculum.maricopa.edu for specific courses and credit minimums by major.

## IV. Arizona General Education Curriculum--Arts (AGEC-A)

The AGEC-A requires a minimum of 35 credits ( 32 if FYC is met by single transfer course*). However, prerequisite/required/restricted elective courses may also meet AGEC-A requirements but are only counted once toward the total credits for the degree. Therefore, the AGEC-A may be met with fewer than 35 credits (fewer than 32 if FYC is met by single transfer course*) as long as all requirements listed in this section (IV) are completed.

Courses applied to meet AGEC-A requirements vary by major. Refer to the Program (Degree) Search at curriculum.maricopa.edu for specific course requirements. Some courses may be met by Required Courses or Restricted Electives. Some of these courses also have Awareness Areas designations and can be used to satisfy [C], [G] and/or [H] requirement(s) as well other AGEC requirements, Required Course(s) or Restricted Elective(s). Courses may meet more than one requirement but are only counted once toward the total credits for the degree. AGEC designations are subject to change.

See AGEC matrix for each course's value(s) in the semester it is taken.
A. First-Year Composition [FYC] ..... 6*ENG101 OR ENG107 AND(3*)
ENG102 OR ENG108
B. Literacy and Critical Inquiry [L]. ..... 3(3*)
May be met by CRE101 among other courses
C. Mathematical Applications [MA]
Requires a course in college mathematics (MAT140, MAT141, MAT142, MAT145,MAT146) or college algebra (MAT150, MAT151, MAT152, MAT155, MAT156) orprecalculus (MAT187) or higher [MA]-approved general education course.
D. Computer/Statistics/Quantitative Applications [CS]. ..... 3
E. Humanities, Arts and Design [HU]. ..... 6
Students are encouraged to choose course work from more than one discipline.
F. Social-Behavioral Sciences [SB].
$\qquad$Students are encouraged to choose course work from more than one discipline.
G. Natural Sciences [SQ/SG]The lecture courses selected for Natural Sciences must include or be accompanied bythe corresponding laboratory courses for a total of four credits each. Credits forlecture and lab components may be combined or each may carry separate credit. Atleast four credits must be designated as SQ-Science Quantitative. Eight credits ofSG-Science General will not satisfy this requirement.
H. Awareness Areas2. Global Awareness [G] OR Historical Awareness [H](0-3)


## VI. General Electives.

## Number varies

Select courses 100 -level or higher if needed to complete a minimum of 120 semester credits. Ideally, students should select courses that meet requirements for their major/area of interest and graduate-level transfer institution.

Maricopa courses and external courses evaluated as Maricopa equivalents, departmental electives (e.g., HISELC for a history elective), or general electives (GENELC) and completed with a grade of C or higher, may be applied in the elective area, regardless of potential transferability to other institutions. For appropriate course selection, students should consult with an academic advisor.

## TOTAL

*FYC may be met with fewer than 6 credits if a student has transfer credit from ASU, NAU or UAZ for a single course that meets FYC in full.
**120 semester credits is the minimum of 120 credits; however, minimum credits for a BA may vary by specific major. Refer to the Program (Degree) Search at curriculum.maricopa.edu for credit minimums by major.

# Maricopa County Community College District (MCCCD) 2023-2024 Arizona General Education Curriculum (AGEC) - A, B, S 

## Description

The Maricopa County Community College District Arizona General Education Curriculum (MCCCD AGEC) is a general education certificate that fulfills lower-division general education requirements for students planning to transfer to any Arizona public community college or university. Generally, the MCCCD AGEC transfers as a block without loss of credit. In most cases, all courses used to satisfy the MCCCD AGEC will apply to graduation requirements of the university major for which the AGEC was designed.

As described below, the AGECs are a component of most MCCCD associate degrees and comparable degrees at other Arizona public community colleges. The AGEC-A defines the general education requirements in the Associate in Arts (AA), Associate in Arts, Elementary Education (AAEE), and the Associate in Arts, Fine Arts (AAFA) degrees. The AGEC-B defines the general education requirements in the Associate in Business-General Requirements (ABUS-GR) and Associate in Business-Special Requirements (ABUS-SR) degrees. The AGEC-S defines the general education requirements in the Associate in Science (AS) degree.

As described in more detail below, all AGECs require designated courses in First Year Composition [FYC], Literacy and Critical Inquiry [L], Mathematical Studies [MA], Social-Behavioral Sciences [SB], Humanities, Design and Fine Arts [HU], and Natural Science [SQ/SG]. Students must satisfy two Awareness areas as well: Cultural Diversity in the U.S. and either Global Awareness or Historical Awareness. In addition, the AGEC-A and AGEC-B require a Computer/Statistics/Quantitative Applications course [CS] that is not required for students pursuing the AGEC-S.

## Purpose of the AGECs

AGECs were designed to articulate with different academic majors at the state universities, and their particular requirements vary accordingly. In some major-specific pathways, students are allowed to choose from a broad list of courses to satisfy the AGEC requirements, and for others the courses are more restricted or even specified. Additional information on academic majors at the Arizona public universities can be accessed via the following website: aztransfer.com/tools

1. The AGEC-A is designed to satisfy General Education requirements in many liberal arts majors as well as other majors that articulate with an Associate in Arts degree (e.g., social sciences, fine arts, humanities, elementary education). AGEC-A requires a minimum of college mathematics or college algebra to satisfy the Mathematics [MA] requirement.
2. The AGEC-B is designed to satisfy requirements in business majors that articulate with the Associate in Business (ABUS-GR, ABUS-SR). AGEC-B requires a minimum of brief calculus to satisfy the Mathematics [MA] requirement.
3. The AGEC-S is designed to satisfy requirements in majors with more prescriptive mathematics and mathematicsbased science requirements such as many in the sciences, technology, engineering and mathematics. AGEC-S requires a minimum of the first course in a calculus sequence to satisfy the Mathematics [MA] requirement, and a minimum of eight (8) credits of either university chemistry, university physics, general biology for majors, or physical and historical geology to satisfy the Natural Sciences [SQ/SG] requirement. In addition, students must select six (6)- to ten (10) additional credits of Subject Options composed of math and/or science appropriate to their major.

## Academic Policies that Govern the AGEC A, B, S

- Requires completion of at least 35 credit hours* (for AGEC-A and AGEC-B) and 36 credit hours* (for AGEC-S) in courses numbered 100 and above that have been approved for one or more AGEC designations; a minimum of 12 of those credits must be completed at one or any combination of the MCCCD colleges. See First Year Composition [FYC] notes in the following AGEC descriptions and footer for credit minimum exceptions*.
- All MCCCD courses applied to the AGEC must be completed with a grade of "C" or better.
- All MCCCD courses applied to the AGEC must be accepted for transfer credit as a direct equivalent, departmental elective, or general elective credit at ASU, NAU, and UAZ according to the Course Equivalency Guide for the academic year in which the course was taken. Courses approved for transfer exclusively toward the Bachelor of Applied Science are ineligible for inclusion in the AGEC.
- A single course can simultaneously count toward one or more Awareness Areas and other AGEC requirements. For example, an approved course in world geography may be used to satisfy [SB] and [G] requirements. While multiple requirements can be met with a single course, the credits for that course are only counted one time toward the required minimum total for the AGEC. Except as detailed below for the AGEC-S, a single course cannot be used to satisfy more than one AGEC requirement, with the exception of Awareness Areas. While multiple requirements can be met with a single course, the credits are only counted one time toward the required minimum for the degree. Except as detailed below for the AGEC-S, a single course cannot be used to satisfy more than one AGEC core requirement other than Awareness Areas. For example, for AGEC-A and AGEC-B, a single course cannot be used to satisfy both [HU] and [SB], but it could be used to meet [HU] and [C], [G] and/or [H].
- Awareness Areas and MCCCD's Additional Requirements may also be shared with other AGEC Requirements. Optimizing credits in this way is often recommended because some programs and universities limit transferable credits at 64.


## Transfer Credit from Institutions Outside of MCCCD

- Credits transferred from outside of MCCCD must be completed with a grade of "C" ( 2.0 on a 4.0 scale) or better. Transfer credit graded pass/fail or pass/no credit may be used to satisfy AGEC requirements if documentation collected by the community college indicates that this was the only grading option available and that the Pass grade (" P ") is equivalent to a " C " or better.
- The AGEC (Arizona General Education Curriculum) designations of courses completed at other Arizona public colleges or universities will be applied as listed on AZTransfer's Course Equivalency Guide (CEG) for the semester(s) in which the course(s) were completed. If a transcript evaluation determines there is no MCCCD direct equivalency to a course from another Arizona public college or university, applicability to AGEC and/or associate degree requirements will be based on the source institution's AGEC designation for the semester in which the course was completed.
- Courses from private, out-of-state, and/or online institutions (i.e., outside of the Arizona Transfer System composed of Arizona's public community colleges, tribal colleges and universities) will be applied toward AGEC and/or associate degree requirements based on the courses' evaluated MCCCD equivalence. If courses are not directly equivalent, the credit may be articulated as a departmental elective, and if deemed appropriate, may have a general education designation applied to the course.
- Credit awarded at a Maricopa Community College through prior learning assessment in a nontraditional setting is transferable to other colleges in the MCCCD district but is not necessarily transferable to other colleges and universities outside of the MCCCD system. No more than 20 such assessed semester credit hours may be applied toward AGEC.


## Completion and Transfer

- Completion of the AGEC with a minimum grade point average of 2.0 for Arizona residents and 2.50 for non-residents (on a 4.0 scale) meets Arizona public university general admission requirements. It does not ensure admission to specific university majors or programs with selective admission processes and/or limited enrollment.
Students planning to transfer to another college or university are urged to refer to university requirements and academic advisors from both institutions to be certain that all their selected coursework is applicable to the requirements of their intended transfer degree. For some majors, the statewide Common Course matrix, AZTransfer Pathway Guides and/or University Transfer Guides posted on the AZTransfer website can also provide some guidance. For appropriate course selection, students should consult with an academic advisor.


## AGEC Requirements

Descriptions and definitions of the requirements for each of the three AGECs follow. The following website identifies the courses that apply to the different requirements within each AGEC for a given academic year: AGEC matrix. AGEC designations are subject to change. It is important to verify a course's AGEC value in the semester it is taken. For convenience, this information is provided for the current and upcoming semester in the "Find a Class" tool on maricopa.edu and on each MCCCD college's website as well as in the AGEC matrix provided by

## AZTransfer.

Note that for students pursuing an associate degree with a specific emphasis (for example: Associate in Arts, Emphasis in History; Associate in Arts, Fine Arts, Emphasis in Theatre; Associate in Science, Emphasis in Physics), the AGEC course requirements are usually more prescriptive. Students pursuing a major-specific pathway should consult the Program (Degree) Search at curriculum.maricopa.edu (click on Current Programs) for specific degree and AGEC requirements. Consultation with an academic advisor about course selection is always recommended.

## Credits

## Arizona General Education Curriculum--Arts (AGEC-A)

The AGEC-A requires a minimum of 35 credits ( 32 if [FYC] is met by single transfer course*); courses applied to meet AGEC-A requirements vary by emphasis.
Refer to the program (Degree) Search at curriculum.maricopa.edu (click on Current Programs) for specific course requirements. The Required Courses and/or Restricted Electives for some areas of Emphasis may also have AGEC designations including one or more of the Awareness Areas ([C], [G] and/or [H]). A single course may meet more than one requirement but its credits are only counted once toward the total for the degree. AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.
A. First-Year Composition [FYC]............................................................................... 6*

ENG101 OR ENG107....................................................................................... (3*)
AND ENG102 OR ENG108............................................................................ (3*)
B. Literacy and Critical Inquiry [L]............................................................................. 3
C. Mathematical Applications [MA]......................................................................... 3-6

Requires a course in college mathematics (MAT140, MAT141, MAT142, MAT145, MAT146) or college algebra (MAT150, MAT151, MAT152, MAT155, MAT156) or pre-calculus (MAT187) or higher [MA]-approved general education course.
D. Computer/Statistics/Quantitative Applications [CS]................................................... 3
E. Humanities, Arts and Design [HU].............................................................................. 6

Students are encouraged to choose course work from more than one discipline.
F. Social-Behavioral Sciences [SB].

6
Students are encouraged to choose course work from more than one discipline.
G. Natural Sciences [SQ/SG

8
The lecture courses selected for Natural Sciences must include or be accompanied by the corresponding laboratory courses for a total of four credits each. Credits for lecture and lab components may be combined or each may carry separate credits. At least four (4) credits must be designated as SQScience Quantitative. Eight (8) credits of SG-Science General will not satisfy this requirement.
H. Awareness Areas.

The same course(s) may be used to satisfy one or more Awareness Area(s) as well as other AGEC requirements. (See AGEC matrix for current course values). Credits for such shared courses may only be counted once.

1. Cultural Diversity in the United States [C].
2. Global Awareness [G] OR Historical Awareness [H]
*FYC may be met with fewer than 6 credits if student has transfer credit from ASU, NAU or UAZ for a single course that meets FYC in full.
Credits
Arizona General Education Curriculum - Business (AGEC-B) ..... 35 (min.*)
The AGEC-B requires a minimum of 35 credits ( 32 if FYC is met by single transfer course*),The Required Courses and/or Restricted Electives for corresponding Associate's degree mayalso have AGEC designations including one or more of the Awareness Areas ([C], [G] and/or$[\mathrm{H}])$. A single course may meet more than one requirement but its credits are only countedonce toward the total for the degree.
A. First-Year Composition [FYC]. ..... 6*
ENG101 OR ENG107 AND ..... (3*)
ENG102 OR ENG108 ..... (3*)
B. Literacy and Critical Inquiry [L]. ..... 3
C. Mathematical Applications [MA] ..... 3-5
MAT212 Brief Calculus OR ..... (3)
MAT213 Brief Calculus OR ..... (4)
Higher [MA] designated course. ..... (3-5)
D. Computer/Statistics/Quantitative Applications [CS]. ..... 3
CIS105 Survey of Computer Information Systems
6
E. Humanities, Arts and Design [HU]
Students are encouraged to choose course work from more than one discipline.6
ECN211 Macroeconomics AND ECN212 Microeconomics
G. Natural Sciences [SQ/SG]8The lecture courses selected for Natural Sciences must include or beaccompanied by the corresponding laboratory courses for a total of four (4)credits. Credits for lecture and lab components may be combined or each maycarry separate credit. At least four (4) credits must be designated as SQ-Science Quantitative. Eight (8) credits of SG-Science General will not satisfythis requirement.
H. Awareness Areas

$\qquad$ ..... 0-6The same course(s) may be used to satisfy one or more Awareness Area(s) aswell as other AGEC requirements. (See AGEC matrix for current coursevalues). Credits for such shared courses may only be counted once.1. Cultural Diversity in the United States [C].(0-3)
2. Global Awareness [G] OR Historical Awareness [H] ..... (0-3)
*FYC may be met with fewer than 6 credits if student has transfer credit from ASU, NAU or UAZ for a single course that meets FYC in full.

## Credits

Arizona General Education Curriculum--Science (AGEC-S)
36 (min.*)
The AGEC-S requires a minimum of 36 credits ( 33 if FYC is met by single transfer course*); courses applied to meet AGEC-S requirements vary by emphasis. Refer to the program (Degree) Search at curriculum.maricopa.edu (click on Current Programs) for specific course requirements. The Required Courses and/or Restricted Electives for some areas of Emphasis may also have AGEC designations including one or more of the Awareness Areas ( $[\mathrm{C}],[\mathrm{G}]$ and/or $[\mathrm{H}]$ ). A single course may meet more than one requirement but its credits are only counted once toward the total for the degree.

Some courses have been approved for more than one AGEC designation (see AGEC matrix). For the AGEC-S only, a single course with an [L] designation may be used to satisfy a second AGEC requirement (as well as any approved Awareness Areas). Only courses with [L] designations may be shared in this way.
A. First-Year Composition [FYC]. ..... 6*
ENG101 OR ENG107. ..... (3*)
AND ENG102 OR ENG108. ..... (3*)
B. Literacy and Critical Inquiry [L]. ..... 0-3**Students pursuing AGEC-S and/or AS degree are strongly encouraged tochoose an [L] course that also has [HU] or [SB] designation or to useCRE101 or COM225 from the Maricopa Additional Requirements Area tosatisfy the [L] requirement. The [L] course selected may also have beenapproved to satisfy one or more Awareness Areas ([C], [G], [H]). Thus, asingle [L] course could potentially meet another AGEC requirement as wellas one or more Awareness areas.
C. Mathematical Applications [MA] ..... 4-5Requires the first semester of calculus courses designed for scientists andengineers (MAT220 or MAT221) or any other [MA] designated course forwhich Calculus I is a prerequisite.
D. Humanities, Arts and Design [HU].6A single course approved for both [L] and [HU] designations may be used tosatisfy both requirements. This policy is unique to AGEC-S and to [L]courses. A course approved for both [HU] and [SB] can be counted for oneor the other designation, not both. AGEC designations are subject tochange. See AGEC matrix for each course's value(s) in the semester it istaken.
E. Social-Behavioral Sciences [SB].6A single course approved for both [L] and [SB] designations may be used tosatisfy both requirements. This policy is unique to AGEC-S and to [L]courses. A course approved for both [SB] and [HU] can be counted for oneor the other designation, not both. AGEC designations are subject tochange. See AGEC matrix for each course's value(s) in the semester it istaken.
F. Natural Sciences [SQ/SG]
Students must complete eight (8) credits of General Chemistry, University8-10Physics, General Biology for Majors, or Physical and Historical Geology.Consult specific requirements of university transfer major or associatedegree with corresponding emphasis. for guidance.
[(CHM150 or CHM151) \& CHM151LL] orCHM150AA or CHM151AA General Chemistry I
AND
[CHM152 \& CHM152LL] or CHM152AA General Chemistry II
OR
PHY115 or PHY121 University Physics I
AND
PHY116 or PHY131 University Physics II
OR
BIO181 or BIO181XT General Biology (Majors) I

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AND
BIO182 or BIO182XT General Biology (Majors) II OR
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GLG101IN Introduction to Geology I - Physical or
GLG101 Introduction to Geology I - Physical Lecture and
GLG103 Introduction to Geology I - Physical Lab
AND
GLG102IN Introduction to Geology II - Historical or GLG102 Introduction to Geology II - Historical Lecture and
GLG104 Introduction to Geology II - Historical Lab
G. Subject Options - Math/Science. $\qquad$
Students should refer to transfer resources, including academic advisement, transfer guides and/or requirements for associate degree with corresponding area of emphasis, to select six (6)-ten (10) additional math and/or science credits that meet requirements for selected major.

This Math/Science requirement can be met by selecting Mathematics course(s) [MAT] that require Calculus I as a prerequisite and/or Computer Science course(s) [CSC] and/or additional Science courses from the following disciplines: Astronomy, Biology, Botany, Chemistry, Engineering, Environmental Science, Geology, Physical Geography, Physics, Zoology (MCCCD prefixes AST, BIO CHM, ECE, EEE, ENV, GLG, GPH, and/or PHY)
H. Awareness Areas. $\qquad$
The same courses may be used to satisfy one or more Awareness Area(s) as well as other AGEC requirements (see AGEC matrix for current course values).

1. Cultural Diversity in the United States [C]..
2. Global Awareness [G] OR Historical Awareness [H]
*FYC may be met with fewer than 6 credits if student has transfer credit from ASU, NAU or UAZ
for a single course that meets FYC in full.
**0 only if shared with HU or SB

## Description of AGEC Designations

## First-Year Composition (FYC)

First-Year Composition courses emphasize skills necessary for college-level expository writing, including correct grammar and punctuation, logical organization of ideas, and identification of supporting documentation.

## Literacy and Critical Inquiry [L]

In the [L] course, students typically at the sophomore level, express their findings in writing or speech. This course includes a series of graded written or spoken formal assignments.

Literacy is defined broadly as communicative competence in written and oral discourse; critical inquiry is defined as the gathering, interpreting, and evaluating of evidence. Building on the proficiency attained in traditional FirstYear Composition courses, the Literacy and Critical Inquiry [L] requirement sustains and extends students' ability to thoughtfully use and critically analyze written and/or spoken language.

## Mathematical Applications [MA]

The Mathematical Studies requirement is intended to ensure that students have requisite skill in mathematics appropriate for their discipline and can apply mathematical analysis in their chosen fields.

## Computer/Statistics/Quantitative Applications [CS]

AGEC-A and AGEC-B require a course that emphasizes the use of statistics, other mathematical methods, computer programming languages and/or software in the interpretation of data and in describing and analyzing quantitative relationships.

## Humanities, Arts and Design [HU]

The study of the humanities and the disciplines of art and design deepen awareness of the complexities of the human condition and its diverse histories and cultures. Courses in the humanities are devoted to the production of human thought and imagination, particularly in philosophical, historical, religious and artistic traditions. Courses with an emphasis in fine arts and design are devoted to the study of aesthetic experiences and the processes of artistic creation. They may also feature a design emphasis in which material culture is studied as a product of human thought and imagination.

## Social-Behavioral Sciences [SB]

Social-Behavioral Sciences provide scientific methods of inquiry and empirical knowledge about human behavior, both within society and within individuals. This area of emphasis may include study of such disciplines as anthropology, economics, history, political science, psychology, or sociology. The courses in this area address the challenge of understanding the diverse natures of individuals and cultural groups who live together in a complex and evolving world.

## Natural Sciences [SQ/SG]

In addition to an understanding of basic scientific principles and concepts, courses in the Natural Sciences are designed to help students appreciate, from firsthand laboratory and/or field research experience, the nature of science as a process that embraces curiosity, inquiry, testing, and communication to better understand natural phenomena. At least one of the two natural science courses must include an introduction to the fundamental behavior of matter and energy in physical or biological systems.

## AWARENESS AREAS

Students must satisfy two Awareness areas: Cultural Diversity in the U.S. and either Global Awareness or Historical Awareness. Courses can satisfy other AGEC requirements and one or two Awareness areas simultaneously. Therefore, no additional semester credits are required to satisfy the two Awareness areas provided courses selected are approved for those designations (see AGEC matrix).

## Cultural Diversity in the United States [C]

The contemporary "culture" of the United States involves the complex interplay of many different cultures that exist side by side in various states of harmony and conflict. U.S. history involves the experiences of European immigrants and their descendants, American Indians, Hispanic Americans, African Americans and Asian Americans--all of whom played significant roles in the development of contemporary culture and together shape the future of the United States. At the same time, the recognition that gender, class, and religious differences cut across all distinctions of race and ethnicity offers an even richer variety of perspectives from which to view one. Awareness of cultural diversity and its multiple sources can illuminate the collective past, present, and future and can help to foster greater mutual understanding and respect.

The objective of the Cultural Diversity area requirement is to promote awareness of and appreciation for cultural diversity within the contemporary United States. This is accomplished through the study of the cultural, social, or scientific contributions of women and minority groups, examination of their experiences in the United States, or exploration of successful or unsuccessful interactions between and among cultural groups.

## Global Awareness [G]

Human organizations and relationships have evolved from being family and village centered to the modern global interdependence that is apparent in many disciplines--for example, contemporary art, business, engineering, music, and the natural and social sciences. Many serious local and national problems are world issues that require solutions which exhibit mutuality and reciprocity. These problems occur in a wide variety of activities, such as food supply, ecology, health care delivery, language planning, information exchange, economic and social developments, law, technology transfer, and even philosophy and the arts. The Global Awareness Area recognizes the need for an understanding of the values, elements, and social processes of cultures other than the culture of the United States. The Global Awareness Area includes courses that recognize the nature of other contemporary cultures and the relationship of the American cultural system to generic human goals and welfare.

Courses that satisfy the global awareness option in the requirements are of one or more of the following types:

1. Area studies that are concerned with an examination of culture-specific elements of a region of the world
2. The study of a non-English language
3. Studies of international relationships, particularly those in which cultural change is facilitated by such factors as social and economic development, education, and the transfer of technology
4. Studies of cultural interrelationships of global scope such as the global interdependence produced by problems of world ecology.

## Historical Awareness [H]

The Historical Awareness Area option in the requirements aims to develop a knowledge of the past that can be useful in shaping the present and future. Because historical forces and traditions have created modern life and lie just beneath its surface, historical awareness is an aid in the analysis of present-day problems. Also, because the historical past is a source of social and national identity, historical study can produce intercultural understanding by tracing cultural differences to their origins. Even the remote past may have instructive analogies for the present.

The Historical Awareness Area consists of courses that are historical in method and content. In this area, the term "history" designates a sequence of past events or a narrative whose intent or effect is to represent such a sequence.

The requirement presumes that these are human events and that history includes all that has been felt, thought, imagined, said, and done by human beings. History is present in the languages, art, music, literature, philosophy, religion, natural sciences, as well as in the social science traditionally called history.

## Maricopa County Community College District (MCCCD) 2023-2024 Associate in Arts (AA) Degree

## Description

The Maricopa County Community College District Associate in Arts (AA) degree requires a minimum of 60 semester credits for the program of study; minimum total credits vary by specific emphasis (for example, Associate in Arts, Emphasis in Psychology). Refer to curriculum.maricopa.edu (click on Current Programs) to search for the corresponding area of emphasis for credit minimums. A minimum grade point average of 2.0 (4.0 scale) and grades of "C" or better are required in all courses to earn the degree. The AA degree is governed by the MCCCD General Academic Policies for Degrees Designed for University Transfer.

The Associate in Arts degree includes the following components:
I. Program Prerequisites (as specified by emphasis area)
II. Required Courses
III. Restricted Electives (as specified by area of emphasis)
IV. Arizona General Education Curriculum for Arts (AGEC-A)
V. MCCCD Additional Requirements (Oral Communication and Critical Reading)
VI. General Electives (if needed to reach minimum credits for degree)

## Purpose of the Degree

The Associate in Arts (AA) degree is designed for students planning to transfer to four-year colleges and universities. In general, the components of the degree meet requirements for majors in the Liberal Arts or programs of study other than business or science. Generally, the degree will transfer as a block without loss of credit to Arizona's public universities and other institutions with district-wide articulation agreements.

In most cases, courses used to satisfy the MCCCD Associate in Arts (AA) will apply to general university graduation requirements of the majors that align with the AA degree; however, students need to be aware of any specific requirements of their intended major at the university to be sure they select courses that will meet them. Information regarding the articulation of the AA with majors at the Arizona public universities can be accessed via the following website: aztransfer.com/tools

## Degree Requirements

The requirements for the Associate in Arts (AA) follow. The AA degree requires at least 60 credits; however, minimum credits for the AA vary for a specific area of emphasis. Refer to curriculum.maricopa.edu and click on Current Programs to search for the corresponding area of emphasis and credit minimums; review course sequence at maricopa.edu/degrees-certificates\#programs. The following websites identify the courses that apply to the different General Education Core and Awareness Areas: AGEC-A and the AGEC matrix.

## Requirements

I. Program Prerequisites $\qquad$ Program prerequisites for the AA degree vary by specific emphasis, and are neither required for all emphases nor for the AA degree without a specific emphasis Refer to curriculum.maricopa.edu (click on Current Programs) to search for the corresponding area of emphasis and credit minimums.

## II. Required Courses

$\qquad$
Students must complete FYE 101 (1) or FYE 103 (3) and select the required courses for the specific AA degree emphasis. Refer to curriculum.maricopa.edu (click on Current Programs) to search for the corresponding area of emphasis for specific courses required and credit minimums.

## Credits

Number varies

Number varies
III. Restricted ElectivesRestricted electives for the AA degree vary by specific emphasis and are not required forthe general AA degree without a specific emphasis. Refer to curriculum.maricopa.edu(click on Current Programs) to search for the corresponding area of emphasis for specificcourses required and credit minimums.
IV. Arizona General Education Curriculum--Arts (AGEC-A)
The AGEC-A requires a minimum of 35 credits ( 32 if FYC is met by single transfer course*). Courses applied to meet AGEC-A requirements vary by emphasis. Refer to curriculum.maricopa.edu (click on Current Programs) to search for the corresponding area of emphasis and credit minimums.up to 44
Any prerequisite/required/restricted elective courses that also have one or more AGEC designation(s) may be applied toward both requirements. Credits for such shared courses are only counted once toward the total credits for the degree.
AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken. Some of the courses have been approved for more than one designation. Notes below will show how such courses may be used to meet multiple degree requirements.
A. First-Year Composition [FYC]. ..... 6*
ENG101 OR ENG107. ..... (3*)
AND ENG102 OR ENG108 ..... (3*)
B. Literacy and Critical Inquiry [L]. ..... 3
C. Mathematical Applications [MA] ..... 3-6Requires a course in college mathematics (MAT140, MAT141, MAT142,MAT145, MAT146) or college algebra (MAT150, MAT151, MAT152,MAT155, MAT156) or precalculus (MAT187) or higher [MA]-approvedgeneral education course
D. Computer/Statistics/Quantitative Applications [CS] ..... 3
E. Humanities, Arts and Design [HU]. ..... 6Students are encouraged to choose course work from more than onediscipline.
F. Social-Behavioral Sciences [SB] ..... 6
Students are encouraged to choose course work from more than onediscipline.
G. Natural Sciences [SQ/SG]
The lecture courses selected for Natural Sciences must include or be8accompanied by the corresponding laboratory courses for a total of four (4)credits each. Credits for lecture and lab components may be combined oreach may carry separate credits. At least four (4) credits must be designatedas SQ-Science Quantitative. Eight (8) credits of SG-Science General will notsatisfy this requirement.
H. Awareness Areas. ..... 0-6
The same course(s) may be used to satisfy one or more Awareness Area(s) as well as other AGEC requirements. (See AGEC matrix for current course values). Credits for such shared courses may only be counted once.

1. Cultural Diversity in the United States [C] ..... (0-3)
2. Global Awareness [G] OR Historical Awareness [H] ..... (0-3)May be met by [HU] and/or [SB] course depending on specific course(s)selected. (AGEC designations are subject to change. See AGECmatrix for each course's value(s) in the semester it is taken.)
V. MCCCD Additional Requirements ..... 0-6
As noted below, courses in this area may also be applied toward AGEC-A requirements.A. Oral Communication(0-3)Number varies

COM100 [SB] Introduction to Human Communication OR
COM110 [SB] Interpersonal Communication OR
COM225 [L] Public Speaking OR
COM230 [SB] Small Group Communication (3 credits)
B. Critical Reading

CRE101 [L] Critical Reading OR equivalent as indicated by assessment

## VI. General Electives

0-28
Select courses 100 -level or higher if needed to complete a minimum of 60 semester credits but no more than a total of 64 semester credits, which is the maximum number of credits accepted toward most degree programs at Arizona's public universities. Ideally, students should select courses that meet requirements for their major/area of interest and transfer institution. See General Associate Degree Academic Policies for further details, limitations, and guidelines. MCCCD has established recommended courses and sequencing to align with various "Emphasis Areas" in one of nine different "Fields of Interest." See maricopa.edu/degrees-certificates for links to these transfer pathways.

Maricopa courses and external courses evaluated as Maricopa equivalents, departmental electives (e.g., HISELC for a history elective), or general electives (GENELC) that are numbered 100 level or higher, and completed with a grade of " C " or higher may be applied in the elective area, regardless of potential transferability to other institutions. It is recommended, however, that students planning to transfer to a baccalaureate-granting institution meet these general elective requirements with courses that are transferable and applicable to their intended university degree. Transfer and major guides are accessible on the following websites: aztransfer.com/tools, maricopa.edu/degrees-certificates/transfer/pathways-partners, as well as those of individual universities. For appropriate course selection, students should consult with an academic advisor.

TOTAL
60-64**
*FYC may be met with fewer than 6 credits if student has transfer credit from ASU, NAU or UAZ for a single course that meets FYC in full.
**64 semester credits is the maximum accepted toward most degree programs at Arizona's public universities. Some exceptions apply; consult with an academic advisor for additional transfer information

# Maricopa County Community College District MCCCD) 2023-2024 Associate In Science (AS) Degree 

## Description

The Maricopa County Community College District Associate in Science (AS) degree requires a minimum of 60 semester credits for the program of study; minimum total credits vary by specific emphasis (for example, Associate in Science, Emphasis in Physics). Refer to curriculum.maricopa.edu and click on Current Programs to search for the corresponding area of emphasis for credit minimums. A minimum grade point average of 2.0 ( 4.0 scale) and grades of " $C$ " or better are required in all courses to earn the degree. The AS degree is governed by the MCCCD General Academic Policies for Degrees Designed for University Transfer.

The Associate in Science degree includes the following components:
I. Program Prerequisites (as specified by emphasis area)
II. Required Courses
III. Restricted Electives (as specified by emphasis area)
IV. Arizona General Education Curriculum for Science (AGEC-S)
V. MCCCD Additional Requirements (Oral Communication and Critical Reading)
VI. General Electives (if needed to reach minimum credits for degree)

## Purpose of the Degree

The Associate in Science (AS) degree is designed for students planning to transfer to four-year colleges and universities. In general, the components of the degree meet requirements for majors with more stringent mathematics and mathematics-based science requirements. Generally, the degree will transfer as a block without loss of credit to Arizona's public universities and other institutions with district-wide articulation agreements.
It does not, however, guarantee acceptance into particular university majors/programs with a limited number of students. Students should consult with their transfer institution for any specific admission requirements (e.g., GPA, letters of reference, work experience).

In most cases, courses used to satisfy the MCCCD Associate in Science (AS) will apply to general university graduation requirements of the majors that align with the AS degree; however, students need to be aware of any specific requirements of their intended major at the university to be sure they select courses that will meet them. Information regarding the articulation of the AS with majors at the Arizona public universities can be accessed via the following website: aztransfer.com/tools

It is recommended that students select courses that meet more than one general education and/or awareness area requirement. Doing so will maximize the number of math and science electives the student can take as part of the Associate in Science degree.

## Special Academic Policies that Govern the Associate in Science Degree

- The AGEC-S does not require a course with [CS] Computer/Statistics designation.
- Unlike the AGEC-A and AGEC-B, the same course is allowed to satisfy the ([L] and [HU]) or ([L] and [SB]) areas for the AGEC-S. The credits for such a "shared" course are only counted once toward the required minimum for the degree.


## Degree Requirements

The requirements for the Associate in Science (AS) follow. The AS degree requires at least 60 credits; however, minimum credits for the AS may vary for a specific area of emphasis. Refer to curriculum.maricopa.edu and click on Current Programs to search for the corresponding area of emphasis and credit minimums. The following websites identify the courses that apply to the different General Education Core and Awareness Areas: AGEC-S and the AGEC Matrix.

## I. Program Prerequisites

Number varies
Program prerequisites for the AS degree vary by specific emphasis, and are neither required for all emphases nor for the general AS degree without a specific emphasis. Refer to curriculum.maricopa.edu and click on Current Programs to search for the corresponding area of emphasis for specific courses required and credit minimums.

## II. Required Courses

Number varies
Students must complete FYE 101 (1) or FYE 103 (3) and select the required courses for the specific AS degree emphasis. Refer to curriculum.maricopa.edu and click on Current Programs to search for the corresponding area of emphasis for specific courses required and credit minimums.

## III. Restricted Electives

Restricted electives for the AS degree vary by specific emphasis and are not required for the general AS degree without a specific emphasis. Refer to curriculum.maricopa.edu and click on Current Programs to search for the corresponding area of emphasis for specific courses required and credit minimums.

## IV. Arizona General Education Curriculum-Science (AGEC-S)

The AGEC-S requires a minimum of 36 credits ( 33 if FYC is met by single transfer course*). Courses applied to meet AGEC-A requirements vary by emphasis. Refer to curriculum.maricopa.edu and click on Current Programs to search for the corresponding area of emphasis for specific courses required and credit minimums.

Any prerequisite/required/restricted elective courses that also have one or more AGEC designation(s) may be applied toward both requirements. Credits for such shared courses are only counted once toward the total credits for the degree.

AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken. Some of the courses have been approved for more than one designation. Notes below will show how such courses may be used to meet multiple degree requirements.
A. First-Year Composition [FYC]. ..... 6*
ENG101 OR ENG107. ..... (3*)
AND ENG102 OR ENG108. ..... (3*)
B. Literacy and Critical Inquiry [L] ..... 0-3**Students are strongly encouraged to choose an [L] course that also has[HU] or [SB] designation or to use CRE101 or COM225 from theMaricopa Additional Requirements Area to satisfy the [L] requirement.It may also have been approved to satisfy one or more Awareness Areas([C], [G], [H]). (AGEC designations are subject to change. See AGECmatrix for each course's value(s) in the semester it is taken.)
C. Mathematical Applications [MA].$4-5$
The AGEC-S requires the first semester of a calculus sequence designedfor scientists and engineers (MAT220 or MAT221) or any other [MA]designated course for which Calculus I is a prerequisite.
D. Humanities, Arts and Design [HU].6For the AGEC-S, a single course with both [HU] and [L] designations maysatisfy both Areas. Note that some [HU] courses also have AwarenessAreas designations and can be used to satisfy [C], [G] and/or [H]requirement(s) as well as their respective Core Area(s). (AGECdesignations are subject to change. See AGEC matrix for each course'svalue(s) in the semester it is taken.E. Social-Behavioral Sciences [SB].6

For the AGEC-S, a single course with both [SB] and [L] designations may satisfy both Areas. Note that some [SB] courses also have Awareness Areas designations and can be used to satisfy [C], [G] and/or [H] requirement(s) as well as their respective Core Area(s). (AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.)

$$
\begin{aligned}
& \text { F. Natural Sciences [SQ/SG] ......................................................................................................... } \\
& \text { Students must complete eight (8) to ten (10) credits of General Chemistry, } \\
& \text { University Physics, General Biology for Majors, or Physical and Historical } \\
& \text { Geology. Consult specific requirements of university transfer major for } \\
& \text { guidance or refer to curriculum.maricopa.edu and click on Current } \\
& \text { Programs to search for the corresponding area of emphasis. } \\
& \text { [(CHM150 or CHM151) \& CHM151LL] or } \\
& \text { CHM150AA or CHM151AA General Chemistry I } \\
& \text { AND } \\
& \text { [CHM152 \& CHM152LL] or CHM152AA General Chemistry II } \\
& \text { OR }
\end{aligned}
$$

PHY115 or PHY121 University Physics I
AND
PHY116 or PHY131 University Physics II
OR
BIO181 or BIO181XT General Biology (Majors) I
AND
BIO182 or BIO182XT General Biology (Majors) II
OR
GLG101IN Introduction to Geology I - Physical or
GLG101 Introduction to Geology I - Physical Lecture and
GLG103 Introduction to Geology I - Physical Lab
AND
GLG102IN Introduction to Geology II - Historical or
GLG102 Introduction to Geology II - Historical Lecture and
GLG104 Introduction to Geology II - Historical Lab
G. Subject Options - Math/Science

Students should refer to transfer resources, including academic advisement and transfer guides, to select six (6)- ten (10) additional math and/or science credits that meet requirements for the selected major.
This Math/Science requirement can be met by selecting Mathematics course(s) (MAT) that require Calculus I as a prerequisite and/or Computer Science course(s) (CSC) and/or additional Science courses from the following disciplines: Astronomy, Biology, Botany, Chemistry, Engineering, Environmental Science, Geology, Physical Geography, Physics, Zoology (MCCCD prefixes AST, BIO, CHM, ECE, EEE, ENV, GLG, GPH, and/or PHY)
H. Awareness Areas

The same course(s) may be used to satisfy one or more Awareness Area(s) as well as other AGEC requirements. (See AGEC matrix for current course values). Credits for such shared courses may only be counted once.

1. Cultural Diversity in the United States [C]. $\qquad$
2. Global Awareness [G] OR Historical Awareness [H].
V. MCCCD Additional Requirements ..... 0-6Some courses in this area have [SB] and [L] designations and may also be applied to thecorresponding AGEC requirements. See the AGEC matrix on aztransfer.com/tools forcourse designations.
A. Oral Communication
COM100 [SB] Introduction to Human Communication OR COM110 [SB] Interpersonal Communication OR
COM225 [L] Public Speaking OR
COM230 [SB] Small Group Communication (3 credits) OR
COM100AA \& COM100AB \& COM100AC [SB] (3 credits) OR
COM110AA \& COM110AB \& COM110AC [SB] (3 credits)(0-3)B. Critical Reading(0-3)
CRE101 [L] Critical Reading OR equivalent as indicated by assessment
VI. General Electives0-28Select courses 100-level or higher if needed to complete a minimum of 60 semester creditsbut no more than a total of 64 semester credits, which is the maximum number of creditsaccepted toward most degree programs at Arizona's public universities. Ideally, studentsshould select courses that meet requirements for their major/area of interest and transferinstitution. MCCCD has established recommended courses and sequencing to align withvarious "Emphasis Areas" in one of nine different "Fields of Interest." Seemaricopa.edu/degrees-certificates for links to these transfer pathways.
Maricopa courses and external courses evaluated as Maricopa equivalents, departmental electives (e.g., HISELC for a history elective), or general electives (GENELC) that are numbered 100 level or higher, and completed with a grade of " C " or higher, may be applied in the elective area, regardless of potential transferability to other institutions. It is recommended, however, that students planning to transfer to a baccalaureate-granting institution meet these general elective requirements with courses that are transferable and applicable to their intended university degree. Transfer and major guides are accessible on the following websites: aztransfer.com/tools, maricopa.edu/degrees-certificates/transfer/pathways-partners as well as those of individual universities. For appropriate course selection, students should consult with an academic advisor.

## TOTAL

*FYC may be met with fewer than 6 credits if student has transfer credit from ASU, NAU or UAZ for a single course that meets FYC in full.
** (0 only if shared with HU or SB )

* 64 semester credits is the maximum accepted toward most degree programs at Arizona's public universities. Some exceptions apply; consult with an academic advisor for additional transfer information.


# Maricopa County Community College District (MCCCD) 2023-2024 Associate in Arts, Elementary Education (AA-EE) Degree 

## Description

The Maricopa County Community College District Associate in Arts, Elementary Education (AAEE) degree requires a minimum of 60 semester credits for the program of study. A minimum grade point average of 2.0 (4.0 scale) and grades of "C" or better in all courses are required to earn the degree. The AAEE degree is governed by the MCCCD General Academic Policies for Transfer Degrees. Refer to curriculum.maricopa.edu (click on Current Programs) to search for the corresponding 8101 AAEE. A minimum grade point average of 2.0 ( 4.0 scale) and grades of "C" or better are required in all courses to earn the degree. The AA degree is governed by the MCCCD General Academic Policies for Degrees Designed for University Transfer.

The Associate in Arts, Elementary Education degree includes the following components:
I. Required Courses
II. Restricted Electives
III. Arizona General Education Curriculum for Arts (AGEC-A)
IV. MCCCD Additional Requirements (Oral Communication and Critical Reading)

## Purpose of the Degree

The Associate in Arts, Elementary Education (AAEE) degree is designed for the student who plans to transfer to an Elementary Education, Early Childhood, Multicultural/Multilingual, or Special Education program at an Arizona public higher education institution and/or who plans to become a classroom instructional aide. Generally, the degree transfers as a block without loss of credit to Arizona's public universities, and in most cases, its required courses apply to graduation requirements for these Education majors. The AAEE is also embedded within the Bachelor of Arts, Elementary Education and Special Education (BAEE/SPED) offered by the Maricopa Community Colleges.

## Degree Requirements

The requirements for the Associate in Arts in Elementary Education follow. The following websites identify the courses that apply to the different General Education Core and Awareness Areas: AGEC and the AGEC matrix report. Courses available for both Areas during a current or upcoming semester can also be found using the "Find a Class" tool on maricopa.edu and on each MCCCD college's website. Course sequence is available at maricopa.edu/degreescertificates\#programs.

| Requirements | Credits |
| :---: | :---: |
| I. Required Courses. | 14-20 |
| EDU221 Introduction to Education. | (3) |
| EDU222 Introduction to the Exceptional Learner. | (3) |
| EDU230 Cultural Diversity in Education. | (3) |
| FYE101 or FYE103 Introduction/Exploration To College, Career and Personal Success......... | (1-3) |
| MAT256 Investigating Quantity: Number, Operations, and Numeration Systems.. | (4) |
| MAT257 Investigating Geometry, Probability, and Statistics. | (0-4) |

## II. Restricted Electives

A total of eight (8) semester credits is required to satisfy the Arizona Professional Teacher Standards: three (3) credits in an additional Education (EDU) course and five (5) credits in Content Area Electives.

Courses must transfer to all public Arizona universities as elective credit, departmental elective, or equivalent to a university course as indicated in the Arizona Course Equivalency Guide in effect when the course is taken. Courses identified as non-transferable in the Arizona Course Equivalency Guide cannot be used to satisfy this requirement.

Select one (1) additional EDU course (other than EDU221, EDU222, EDU230 or EDU250) $\qquad$
Recommended:
EDU110 Education in Film
EDU220 Introduction to Serving English Language Learners (ELL)
EDU236 Classroom Relationships
EDU/HUM/STO292 The Art of Storytelling
Choose any combination from the following list of courses and prefixes to total five (5) credits of additional coursework. Course(s) selected must be different from those used to fulfill a requirement of the AGEC-A and/or those used to fulfill Required Courses.

Content Area Electives: Select a total of five (5) credits from the following options
ARH+++ Any ARH Art Humanities course(s)
ART+++ Any ART, Art course(s)
BPC+++ Any BPC Business-Personal Computers course(s)
CFS/ECH176 Child Development
CFS205 Human Development
CIS+++ Any CIS Computer Information Systems course(s)
ECN+++ Any ECN Economics course(s)
EDU+++ Any EDU Education course(s) (except EDU221, EDU222, EDU230, and EDU250)
EED215 Early Learning: Health, Safety, Nutrition and Fitness OR
CFS 123 Health and Nutrition in Early Childhood Settings AND
CFS 125 Safety in Early Childhood Settings
ENG+++ Any ENG English course(s)
ENH+++ Any ENH English Humanities course(s)
GCU+++ Any GCU Cultural Geography course(s)
GPH+++ Any GPH Physical Geography course(s)
HIS+++ Any HIS History course(s)
MAT+++ Any MAT Mathematics course(s) 140 or higher (except MAT256 and MAT257)
MHL+++ Any MHL Music: History/Literature course(s)
MTC+++ Any MTC Music: Theory/Composition course(s)
POS+++ Any POS Political Science course(s)
THE+++ Any THE Theatre course(s)
THF+++ Any THF Theatre and Film course(s)
THP+++ Any THP Theatre Performance/Production course(s)
Any Foreign Language course(s)
Any Natural Science course(s)
III. Arizona General Education Curriculum--Arts (AGEC-A)

The AGEC-A requires a minimum of 35 credits ( 32 if FYC is met by single transfer course*);
AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken. Some of the courses have been approved for more than one designation. Notes below will show how such courses may be used to meet multiple degree requirements.
A. First-Year Composition [FYC]..

AND ENG102 OR ENG108.
B. Literacy and Critical Inquiry [L] - COM225 Public Speaking. ..... 3
C. Mathematical Applications [MA].
Requires a course in college mathematics (MAT140, MAT141, MAT142, MAT145,3-6MAT146) or college algebra (MAT150, MAT151, MAT152, MAT155, MAT156) orprecalculus (MAT187) or higher approved general education course in theMathematical Applications [MA] area for which MAT15+ is a prerequisite.(Note that MAT182, MAT206, MAT256, MAT257 do NOT meet this requirement).
D. Computer/Statistics/Quantitative Applications [CS].3
BPC110 Computer Usage and Applications ORCIS 105 Survey of Computer Information Systems OREDU/EED115 Digital Literacy for Teaching and Learning in EducationEDU/EED115 recommended.
E. Humanities, Arts and Design [HU]

$\qquad$Note that some of these courses also have Awareness Areas designations and can beused to satisfy [G] and/or [ H ] requirement as well as [HU]. (AGEC designations aresubject to change. See AGEC matrix for each course's value(s) in the semester it istaken.)

1) Select one of the following ARH, DAH, MHL or THE courses:
$\qquad$
ARH100 Introduction to Art OR
ARH101 Prehistoric through Gothic Art OR
ARH102 Renaissance through Contemporary Art OR
DAH100 Introduction to Dance OR
DAH201 World Dance Studies OR
DAH250 Dance in Popular Culture OR
MHL140 Survey of Music History OR
MHL145 American Jazz and Popular Music OR
MHL146 Survey of Broadway Musicals OR
MHL153 Rock Music and Culture OR
THE111 Introduction to Theatre OR
THE220 Modern Drama
AND

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\begin{aligned}
& \text { 2) Select one of the following EDU, ENH or HUM courses: .................................. } \\
& \text { EDU/ENH291 Children's Literature (Recommended) OR } \\
& \text { ENH110 Introduction to Literature OR } \\
& \text { ENH241 American Literature Before } 1860 \text { OR } \\
& \text { ENH242 American Literature After } 1860 \text { OR } \\
& \text { HUM250 Ideas and Values in the Humanities: Early Civilizations to the } \\
& \text { Renaissance OR } \\
& \text { HUM251 Ideas and Values in the Humanities: Renaissance to the } \\
& \text { Contemporary World }
\end{aligned}
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F. Social-Behavioral Sciences [SB]
Note that some of these courses also have Awareness Areas designations and can be used to satisfy $[\mathrm{G}]$ and/or $[\mathrm{H}]$ requirement as well as [SB]. (AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.)

1) Select one of the following US History/Government courses**. $\qquad$
These courses satisfy the United States Constitution requirement for state teacher certification.
GCU/POS113 United States and Arizona Social Studies OR
HIS 103 United States History to 1865 OR
POS110 American National Government
AND
2) Select one of the following CFS, ECH, GCU, ECN, HIS or PSY courses..........
CFS205 Human Development OR
CFS/ECH176 Child Development OR

ECN211 Macroeconomic Principles OR
ECN212 Microeconomic Principles OR
GCU121 World Geography I: Eastern Hemisphere OR
GCU122 World Geography II: Western Hemisphere OR
HIS104 United States History 1865 to Present OR
PSY101 Introduction to Psychology
(CFS/ECH176 recommended)

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\begin{align*}
& \text { G. Natural Sciences [SQ/SG] ........................................................................................................................................... } \\
& \text { The lecture course(s) selected for Natural Sciences must include or be accompanied } \\
& \text { by the corresponding laboratory course for a total of four (4) credits each. At least } \\
& \text { four (4) credits must be designated as [SQ]. Eight (8) credits of [SG] will not satisfy } \\
& \text { this requirement. } \\
& \text { 1) Life Sciences: Select four (4) credits of SQ or SG in Biology (BIO)........... } \\
& \text { AND }  \tag{4}\\
& \text { 2) Physical Sciences or Earth/Space Sciences: Select four (4) credits of SQ or } \\
& \text { SG from one of the following prefixes: ......................................................... }  \tag{4}\\
& \text { AGS, ASM, AST, CHM, GPH, GLG, PHS, or PHY }
\end{align*}
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Note: Students are advised to check with the university they plan to attend as specific requirements for lab sciences may vary.
H. Awareness Areas.

1) Cultural Diversity in the United States [C]...................................................... (0)
Met by EDU222 and EDU230 in Required Courses.
2) Global Awareness [G] OR Historical Awareness [H]

May be met by [HU] and/or [SB] course(s) depending on specific courses selected. (AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.)
IV. MCCCD Additional Requirements.................................................................................................. 0-3
A. Oral Communication......................................................................................................................
(0)

Met by COM225 that is required to satisfy AGEC-A Literacy and Critical Inquiry [L]
B. Critical Reading.

CRE101 [L] Critical Reading OR equivalent as indicated by assessment

TOTAL
*FYC may be met with fewer than 6 credits if a student has transfer credit from ASU, NAU or UAZ for a single course that meets FYC in full.

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# Maricopa County Community College District (MCCCD) 2023-2024 Associate in Arts, Fine Arts (AAFA) Degree 

## Description

The Maricopa County Community College District Associate in Arts, Fine Arts (AAFA) degree requires a minimum of 60 semester credits for the program of study; however, minimum total credits for the AAFA vary by specific emphasis. Students must select one of the emphasis areas: Art, Dance, Music, Musical Theatre, or Theatre. If an emphasis area is not selected, this program is not eligible for Title IV Federal Financial Aid. Refer to curriculum.maricopa.edu (click on Current Programs) to search for the corresponding area of emphasis for specific courses required and credit minimums for each emphasis. A minimum grade point average of 2.0 ( 4.0 scale) and grades of " C " or better are required in all courses to earn the degree. The AAFA degree is governed by the MCCCD General Academic Policies for associate degrees designed for university transfer.

## The Associate in Arts, Fine Arts degree includes the following components:

I. Program Prerequisites (as specified by emphasis area)
II. Required Courses (as specified by area of emphasis)
III. Restricted Electives (as specified by area of emphasis)
IV. Arizona General Education Curriculum for Arts (AGEC-A)
V. MCCCD Additional Requirements (Oral Communication and Critical Reading)
VI. General Electives (if needed to reach minimum credits for degree)

## Purpose of the Degree

The Associate in Arts, Fine Arts (AAFA) degree is designed for students planning to transfer to four-year colleges and universities. In general, the components of the degree meet requirements for majors in the Fine Arts. The degree is designed to prepare students to meet selective admission criteria for programs such as the Bachelor of Fine Arts; program admission may have an additional emphasis-specific portfolio or performance requirements.

In most cases, courses used to satisfy the MCCCD Associate in Arts, Fine Arts (AAFA) will apply to general university graduation requirements of the majors that align with AAFA degree; however, students need to pay attention to any specific requirements of their intended focus at the university to be sure they select courses that will meet them. Information regarding the articulation of the AAFA degree with majors at the Arizona public universities can be accessed via the following website: aztransfer.com/tools

## Degree Requirements

The requirements for the Associate in Arts, Fine Arts (AAFA) follow. The Associate in Arts, Fine Arts degree requires at least 60 credits; however, minimum total credits for the AAFA vary by specific emphasis (Art, Dance, Music, Musical Theatre, or Theatre). Refer to curriculum.maricopa.edu (click on Current Programs) to search for the corresponding area of emphasis for specific courses required and credit minimums; review course sequence at maricopa.edu/degrees-certificates. The following websites identify the courses that apply to the different General Education Core and Awareness Areas: AGEC-A and the AGEC matrix. Courses available for both Areas during a current or upcoming semester can also be found using the "Find a Class" tool on maricopa.edu and on each MCCCD college's website.

## I. Required Courses

$\qquad$
Students must complete FYE101 or FYE103 and the required (major-specific) courses listed in the Associate in Arts Fine Arts degree Required Courses area for the specific emphasis (Art, Dance, Music, Musical Theatre, or Theatre). Refer to curriculum.maricopa.edu (click on Current Programs) to search for the corresponding area of emphasis for specific courses required and credit minimums for each emphasis.
II. Restricted ElectivesRestricted electives for the Associate in Arts, Fine Arts degree vary by specific emphasis:-(Art, Dance, Music, Musical Theatre, or Theatre). Refer to curriculum.maricopa.edu (click onCurrent Programs) to search for the corresponding area of emphasis for specific coursesrequired and credit minimums for each emphasis.
III. Arizona General Education Curriculum--Arts (AGEC-A)up to 44
The AGEC-A requires a minimum of 35 credits ( 32 if FYC is met by single transfer course*).However, depending on courses selected, it may take as many as 44 credits to satisfy all theGeneral Education criteria. Any required/restricted elective courses that also have one or moreAGEC designation(s) may be applied toward both requirements. Credits for such sharedcourses are only counted once toward the total credits for the degree.
AGEC designations are subject to change. See AGEC matrix for each course's value(s) in thesemester it is taken. Some of the courses may have been approved for more than onedesignation. Notes below will show how such courses may be used to meet multiple degreerequirements.
A. First-Year Composition [FYC] ..... 6*
ENG101 OR ENG107 ..... (3*)
AND ENG102 OR ENG108 ..... (3*)
B. Literacy and Critical Inquiry [L]. ..... 3
C. Mathematical Applications [MA] ..... 3-6
Requires a course in college mathematics (MAT140, MAT141, MAT142,MAT145, MAT146) or college algebra (MAT150, MAT151, MAT152,MAT155, MAT156) or higher [MA]-approved general education course.
D. Computer/Statistics/Quantitative Applications [CS] ..... 3
E. Humanities, Arts and Design [HU]. ..... 6
F. Social-Behavioral Sciences [SB] ..... 6
Students are encouraged to choose course work from more than one discipline.G. Natural Sciences [SQ/SG]8
The lecture courses selected for Natural Sciences must include or beaccompanied by the corresponding laboratory courses for a total of four creditseach. Credits for lecture and lab components may be combined or each may carryseparate credit. At least four credits must be designated as SQ-ScienceQuantitative. Eight credits of SG-Science General will not satisfy thisrequirement.0-6
H. Awareness Areas
The same course(s) may be used to satisfy one or more Awareness Area(s) as well as otherAGEC requirements. (See AGEC matrix for current course values). Credits for suchshared courses may only be counted once.(0-3)

1. Cultural Diversity in the United States [C]. ..... (0-3)2. Global Awareness [G] OR Historical Awareness [H].May be met by [HU] and/or [SB] course(s) depending on specific coursesselected. (AGEC designations are subject to change. See AGEC matrix foreach course's value(s) in the semester it is taken.)
IV. MCCCD Additional Requirements. ..... 0-6
As noted below, courses in this area may also be applied toward AGEC-A requirements.
A. Oral Communication. ..... (0-3)Refer to emphasis area (Art, Dance, Music, Musical Theatre, or Theatre)for specific COM course to select from the following list:
COM100 [SB] Introduction to Human Communication OR
COM110 [SB] Interpersonal Communication OR
COM225 [L] Public Speaking OR
COM230 [SB] Small Group Communication (3 credits) ORCOM100AA \& COM100AB \& COM100AC [SB] (3 credits) ORCOM110AA \& COM110AB \& COM110AC [SB] (3 credits)
B. Critical Reading.(0-3)CRE101 [L] Critical Reading OR equivalent as indicated by assessmentNumber varies

## V. General Electives

Select courses 100 -level or higher if needed to complete a minimum of 60 semester credits but no more than a total of 64 semester credits, which is the maximum number of credits accepted toward most degree programs at Arizona's public universities. Ideally, students should select courses that meet requirements for their major/area of interest and transfer institution. See General Associate Degree Academic Policies for further details, limitations, and guidelines. MCCCD has established recommended courses and sequencing to align with the Fine Arts Emphasis Areas. See maricopa.edu/degrees-certificates for links to these transfer pathways.

Maricopa courses and external courses evaluated as Maricopa equivalents, departmental electives (e.g., HISELC for a history elective), or general electives (GENELC) that are numbered 100 level or higher, and completed with a grade of " C " or higher, may be applied in the elective area, regardless of potential transferability to other institutions. It is recommended, however, that students planning to transfer to a baccalaureate-granting institution meet these general elective requirements with courses that are transferable and applicable to their intended university degree. Transfer and major guides are accessible on the following websites: aztransfer.com/tools, curriculum.maricopa.edu, as well as those of individual universities. For appropriate course selection, students should consult with an academic advisor.
*FYC may be met with fewer than 6 credits if student has transfer credit from ASU, NAU or UAZ for a single course that meets FYC in full.
**64 semester credits is the maximum accepted toward most degree programs at Arizona's public universities. Some exceptions apply; consult with an academic advisor for additional transfer information.

# Maricopa County Community College District (MCCCD) 2023-2024 Associate in Business, General Requirements (ABUS-GR) Degree 

## Description

The Maricopa County Community College District Associate in Business General Requirements (ABUS-GR) degree requires a minimum of 62 semester credits for the program of study. A minimum grade point average of 2.0 ( 4.0 scale) and grades of C or better are required in all courses to earn the degree. The Associate in Business-General Requirements degree is governed by the MCCCD General Academic Policies for Transfer Degrees.

This degree provides the first two years of a four-year curriculum for students who wish to transfer to a university and pursue a bachelor's degree in business. For a comprehensive list of bachelor's degrees at Arizona's public universities, refer to the AZTransfer Business Matrix. With a bachelor's degree, students may pursue a number of careers, including but not limited to accountancy, business administration, business data analytics, economics, entrepreneurship, finance, marketing, management, retail management, and supply chain management.

The Associate in Business-General Requirements degree includes the following components:
I. Required Courses
II. Restricted Electives
III. Arizona General Education Curriculum for Business (AGEC-B)
IV. General Electives (if needed to reach minimum credits for degree)

## Purpose of the Degree

The Associate in Business General Requirements (ABUS-GR) degree is designed for students who plan to transfer to four-year colleges and universities. In general, the components of this degree meet requirements for the various business majors (except Computer Information Systems) at Arizona's public universities. Computer Information Systems majors should follow the Associate in Business Special Requirements (ABUS-SR) pathway instead. Generally, the ABUS-GR degree transfers as a block without loss of credit to Arizona's public universities and other institutions with district-wide articulation agreements. It does not, however, guarantee acceptance into particular university majors/programs with a limited number of students. Students should consult with their transfer institution for any specific admission requirements (e.g., GPA, letters of reference, work experience)

## Special Academic Policies that Govern the ABUS-GR Degree

The ABUS-GR does not include any MCCCD Special Requirements for Oral Communication and/or Critical Reading like the other associate degrees. (However, some university programs have a speech requirement; consult your academic advisor or transfer guide to verify the specifics for your program.)

## Degree Requirements

The courses required for the Associate in Business General Requirements follow. The following websites identify the courses that apply to the different General Education Areas: AGEC-B and the AGEC Matrix. Courses available for both Areas during a current or upcoming semester can also be found using the "Find A Class" tool on maricopa.edu or on each MCCCD college's website.
Requirements Credits
I. Required Courses. ..... 22-28Accounting(6-9)ACC111 Accounting Principles ANDACC230 Uses of Accounting Information I AND
ACC240 Uses of Accounting Information II
OR
ACC211 Financial Accounting AND
ACC212 Managerial Accounting
OR

Some of the following courses can be used to satisfy both this requirement and an
AGEC-B requirement. AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.

ECN211 [SB] Macroeconomic Principles
ECN212 [SB] Microeconomic Principles
FYE101 OR FYE103 Introduction To College, Career And Personal Success
GBS205 Legal, Ethical, and Regulatory Issues in Business..................................................
GBS221 Business Statistics
Quantitative Methods
GBS220 Quantitative Methods in Business OR
MAT217 or MAT218 Mathematical Analysis for Business
Note: Students planning to transfer to ASU's W.P. Carey School of Business BS program should take MAT217 or MAT218.
Students planning to transfer to ASU's W.P. Carey School of Business BA program may take GBS220, MAT217, or MAT218.
Students planning to transfer to the University of Arizona should take GBS220.

## II. Restricted Electives

Complete six (6) credits from the following options. Some courses may be used to satisfy both Restricted Elective and Arizona General Education Curriculum (AGEC) requirements simultaneously. AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.

CIS114DE Excel Spreadsheet.
CIS133DA Internet/Web Development Level I.
CIS162AD C\#: Level I.
GBS110 Human Relations in Business and Industry OR
MGT251 Human Relations in Business.
GBS151 Introduction to Business (Recommended)
GBS220 Quantitative Methods in Business
GBS233 Business Communication.
IBS101 Introduction to International Business
MGT253 Owning and Operating a Small Business
MKT271 Principles of Marketing.
PAD100 21st Century Public Policy and Service.
REA179 Real Estate Principles I.
REA180 Real Estate Principles II
REA201 Real Estate Principles I and I
SBU200 Society and Business.
III. Arizona General Education Curriculum- Business (AGEC-B)

The AGEC-B requires a minimum of 35 credits ( 32 if FYC is met by a single transfer course).* Any
Required and Restricted elective course(s) that also have one or more AGEC designation(s) may be used to meet AGEC-B requirements. Credits for such shared courses only count once toward the total for the degree.

Some courses may be met by Required Courses or Restricted electives. Some of these courses also have Awareness Areas designations and can be used to satisfy [C], [G] and/or [H] requirement(s) as well as other AGEC requirements, Required Course(s), or Restricted Elective(s). Courses may meet more than one requirement but are only counted once toward the total credits for the degree. AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.
ENG101 OR ENG107 AND. ..... (3*)ENG102 OR ENG108..(3*)
B. Literacy and Critical Inquiry [L]. ..... (0-3)May Be Met By GBS 233 in the Restricted Electives Area.C. Mathematical Applications [MA].MAT212 Brief Calculus ORMAT213 Brief Calculus ORHigher General Education Courses in the Mathematical Applications [MA] Area
D. Computer/Statistics/Quantitative Applications [CS].
CIS105 Survey of Computer Information Systems
E. Humanities, Arts and Design [HU]. Students are encouraged to choose course work from more than one discipline.
F. Social-Behavioral Sciences [SB]. $\qquad$
Met by ECN211 AND ECN212 in Required Courses
G. Natural Sciences [SQ/SG]
The lecture courses selected for Natural Sciences must include or be accompanied by the corresponding laboratory courses for a total of four (4) credits each. Credits for lecture and lab components may be combined or each may carry separate credit. At least four (4) credits must be designated as SQ-Science Quantitative. Eight (8) credits of SGScience General will not satisfy this requirement.
H. Awareness Areas.
The same course(s) may be used to satisfy one or more Awareness Area(s) as well as other AGEC requirements. (See AGEC matrix for current course values). Credits for such shared courses may only be counted once.

1. Cultural Diversity in the United States [C].............................................................
2. Global Awareness [G] OR Historical Awareness [H].

## Students transferring to ASU to major in business should complete courses from the following list (up to the 64-credit transfer maximum) to meet W.P. Carey School of Business requirements. If students do not take these prior to transfer, they may need to take additional credits to meet ASU graduation requirements:

- Any course that transfers to ASU in the SOC prefix and carries the [SB] designation
- Any course that transfers to ASU in the PSY prefix and carries the [SB] designation
- One of the following courses in Oral Communication (COM)
COM100 Introduction to Human Communication (3) OR
COM225 Public Speaking (3) OR
COM230 Small Group Communication (3) OR
COM259 Communication in Business and Professions (3)
Note: COM requirements vary by business major. Check ASU's MyPath2ASU or major map for acceptable options.


## IV. General Electives.

Select courses 100-level or higher if needed to complete a minimum of 62 semester credits but no more than a total of 64 semester credits, which is the maximum number of credits accepted toward most degree programs at Arizona's public universities. Ideally, students should select courses that meet requirements for their major/area of interest and transfer institution. See General Associate Degree Academic Policies for further details, limitations, and guidelines. MCCCD has established recommended courses and sequencing for the various associate's degrees. See maricopa.edu/degrees-certificates/business-entrepreneurialism-management/associate-business-general-requirements-8900-abus-gr for ABUS-GR course sequence.

Maricopa courses and external courses evaluated as Maricopa equivalents, departmental electives (e.g., HIS ELC for a history elective), or general electives (GEN ELC) that are numbered 100 level or higher, and completed with a grade of "C" or better, may be applied in the elective area, regardless of potential transferability to other institutions. It is recommended, however, that students planning to transfer to a baccalaureate-granting institution meet these general elective requirements with courses that are transferable and applicable to their intended university degree.

Transfer advisement information is accessible on the following websites: aztransfer.com/tools, curriculum.maricopa.edu, as well as those of individual universities. For appropriate course selection, students should consult with an academic advisor.

## TOTAL

$62 * *$
*FYC may be met with fewer than 6 credits if student has transfer credit from ASU, NAU or UAZ for a single course that meets FYC in full.
**64 semester credits is the maximum accepted toward most degree programs at Arizona's public universities. Some exceptions apply; consult with an academic advisor for additional transfer information.

# Maricopa County Community College District (MCCCD) 2023-2024 Associate in Business, Special Requirements (ABUS-SR) Degree 

## Description

The Maricopa County Community College District Associate in Business, Special Requirements (ABUS-SR) degree requires a minimum of 62 semester credits for the program of study. A minimum grade point average of 2.0 ( 4.0 scale) and grades of " $C$ " or better are required in all courses to earn the degree. The Associate in BusinessSpecial Requirements degree is governed by the MCCCD General Academic Policies for Transfer Degrees.

This degree provides the first two years of a four-year curriculum for students who wish to pursue Computer Information Systems majors at Arizona's public universities. With a bachelor's degree, students may pursue a number of careers, including but not limited to accountancy, business administration, business data analytics, computer information systems, economics, entrepreneurship, finance, marketing, management, retail management, and supply chain management.

The Associate in Business-Special Requirements degree includes the following components:
I. Required Courses
II. Arizona General Education Curriculum for Business (AGEC-B)
III. General Electives (if needed to reach minimum credits for degree)

## Purpose of the Degree

The Associate in Business Special Requirements (ABUS-SR) degree is designed for students who plan to transfer to four-year colleges and universities. In general, the components of this degree meet requirements for Computer Information Systems majors at Arizona's public universities. Other Business majors should follow the Associate in Business General Requirements (ABUS-GR) pathway instead. Generally, the ABUS-SR degree transfers as a block without loss of credit to Arizona's public universities and other institutions with district-wide articulation agreements. It does not, however, guarantee acceptance into particular university majors/programs with a limited number of students. Students should consult with their transfer institution for any specific admission requirements (e.g., GPA, letters of reference, work experience).

## Special Academic Policies that Govern the ABUS-SR Degree

- The ABUS-SR does not include any MCCCD Special Requirements for Oral Communication and/or Critical Reading like the other associate degrees. (However, some university programs have a speech requirement; consult your academic advisor or transfer guide to verify the specifics for your program.)


## Degree Requirements

The courses required for the Associate in Business Special Requirements follow. The following websites identify the courses that apply to the different General Education Core and Awareness Areas:
AGEC-B and the AGEC Matrix. Courses available for both Areas during a current or upcoming semester can also be found using the Find A Class tool on maricopa.edu or on each MCCCD college's website.

| Requirements | Credits |
| :---: | :---: |
| I. Required Courses. | 28-34 |
| Accounting. | (6-9) |
| ACC111 Accounting Principles AND |  |
| ACC230 Uses of Accounting Information I AND |  |
| ACC240 Uses of Accounting Information II |  |
| OR |  |
| ACC211 Financial Accounting AND |  |
| ACC212 Managerial Accounting |  |
| OR |  |
| ACC111 Accounting Principles I AND |  |
| ACC112 Accounting Principles II AND |  |
| ACC212 Managerial Accounting |  |

Some of the following courses can be used to satisfy both this requirement and an AGEC-B requirement. AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.
ECN211 [SB] Macroeconomic Principles.ECN212 [SB] Microeconomic Principles
$\qquad$FYE101 OR FYE103 Introduction To College, Career And Personal Success.GBS205 Legal, Ethical, and Regulatory Issues in Business.GBS221 Business Statistics.(3)
CIS162AD C\#: Level 1 ..... (3)
CIS250 Management of Information Systems. ..... (1-3)
Quantitative Methods ..... (3)
GBS220 Quantitative Methods in Business OR ..... (3)
MAT217 or MAT218 Mathematical Analysis for Business(3)
Note: Students planning to transfer to ASU's W.P. Carey School of Business BS programshould take MAT217 or MAT218.Students planning to transfer to ASU's W.P. Carey School of Business BA program maytake GBS220, MAT217, or MAT218.Students planning to transfer to the University of Arizona should take GBS220.

## II. Arizona General Education Curriculum- Business (AGEC-B)

$\qquad$The AGEC-B requires a minimum of 35 credits ( 32 if FYC is met by single transfercourse*) Any Required and Restricted elective course(s) that also have one or more AGECdesignation(s) may be used to meet AGEC-B requirements. Credits for such shared coursesonly count once toward the total for the degree.
Some courses may be met by Required Courses or Restricted electives. Some of these courses also have Awareness Areas designations and can be used to satisfy [C], [G] and/or $[\mathrm{H}]$ requirement(s) as well as other AGEC requirements or Required Course(s). Courses may meet more than one requirement but are only counted once toward the total credits for the degree. AGEC designations are subject to change. See AGEC matrix for each course's value(s) in the semester it is taken.
A. First-Year Composition [FYC].ENG101 OR ENG107 AND.ENG102 OR ENG108.
B. Literacy and Critical Inquiry [L]..C. Mathematical Applications [MA].

$\qquad$6*
MAT212 Brief Calculus OR ..... (3*)
MAT213 Brief Calculus OR ..... (3*)
Higher General Education Courses in the Mathematical Applications [MA] ..... 3
Area. ..... 3-5
D. Computer/Statistics/Quantitative Applications [CS] ..... (3)
CIS105 Survey of Computer Information Systems ..... (4)
E. Humanities, Arts and Design [HU]. ..... (3-5)
Students are encouraged to choose course work from more than one discipline.3
F. Social-Behavioral Sciences [SB]Met by ECN211 AND ECN212 in Required Courses6
G. Natural Sciences [SQ/SG]The lecture courses selected for Natural Sciences must include or beaccompanied by the corresponding laboratory courses for a total of four (4)0
credits each. Credits for lecture and lab components may be combined oreach may carry separate credit. At least four (4) credits must be designatedas SQ-Science Quantitative. Eight (8) credits of SG-Science General will not 8satisfy this requirement.
H. Awareness AreasThe same course(s) may be used to satisfy one or more Awareness Area(s)as well as other AGEC requirements. (See AGEC matrix for current coursevalues). Credits for such shared courses may only be counted once

1. Cultural Diversity in the United States [C]. $\qquad$
2. Global Awareness [G] OR Historical Awareness [H].

## Students transferring to ASU to major in business should complete courses from the following list (up to the 64-credit transfer maximum) to meet W.P. Carey School of Business requirements. If students do not take these prior to transfer, they may need to take additional credits to meet $A S U$ graduation requirements:

- Any course that transfers to ASU in the SOC prefix and carries the [SB] designation
- Any course that transfers to ASU in the PSY prefix and carries the [SB] designation
- One of the following courses in Oral Communication (COM)

COM100 Introduction to Human Communication (3) OR
COM225 Public Speaking (3) OR
COM230 Small Group Communication (3) OR
COM259 Communication in Business and Professions (3)
Note: COM requirements vary by business major. Check ASU's MyPath2ASU or major map for acceptable options.

## III. General Electives

Select courses 100-level or higher if needed to complete a minimum of 62 semester credits but no more than a total of 64 semester credits, which is the maximum number of credits accepted toward most degree programs at Arizona's public universities. Ideally, students should select courses that meet requirements for their major/area of interest and transfer institution. See General Associate Degree Academic Policies for further details, limitations, and guidelines. MCCCD has established recommended courses and sequencing for the various associate's degrees. See maricopa.edu/degrees-certificates/business-entrepreneurialism-management/associate-business-special-requirements-8800-abus-sr for ABUS-SR course sequence.

Maricopa courses and external courses evaluated as Maricopa equivalents, departmental electives (e.g., HISELC for a history elective), or general electives (GENELC) that are numbered 100 level or higher, and completed with a grade of " C " or better, may be applied in the elective area, regardless of potential transferability to other institutions. It is recommended, however, that students planning to transfer to a baccalaureate-granting institution meet these general elective requirements with courses that are transferable and applicable to their intended university degree.

Transfer advisement information is accessible on the following websites: aztransfer.com/tools, curriculum.maricopa.edu, as well as those of individual universities. For appropriate course selection, students should consult with an academic advisor.

## TOTAL

*FYC may be met with fewer than 6 credits if student has transfer credit from ASU, NAU or UAZ for a single course that meets FYC in full.
**64 semester credits is the maximum accepted toward most degree programs at Arizona's public $\quad \mathbf{6 2}$ ** universities. Some exceptions apply; consult with an academic advisor for additional transfer information...

## Maricopa County Community College District (MCCCD) 2023-2024 Associate In General Studies (AGS) Degree and General Education Requirements

## Description

The Maricopa County Community College District Associate in General Studies degree requires 6064 semester credits in courses numbered 100 and above. The degree includes the following components:
I. Required Courses (1-3 credits)

First Year Experience (all courses completed with a grade of "C" or better)
II. General Education (minimum of 35 credits)

Core Areas (all courses completed with a grade of "C" or better)

- First-Year Composition
- Mathematics
- Computer Usage
- Oral Communication
- Critical Reading

Distribution Areas (all courses completed with a grade of "D" or better):

- Humanities, Arts and Design
- Social-Behavioral Sciences
- Natural Sciences
- Literacy and Critical Inquiry
III. General Electives (enough additional courses numbered 100 or above, completed with a grade of "D" or better, to bring total credits to at least 60)


## Purpose of the Degree

The Associate in General Studies (AGS) degree is recommended for students whose educational goals require flexibility. The degree allows students to apply any course numbered 100 or above, including some that are not transferable to the Arizona public universities and may not be transferable to other universities, toward the credits required for the degree. Therefore, for students who intend to transfer to another college or university to pursue a bachelor's degree, this degree may be less appropriate than other associate degrees offered by the Maricopa Community Colleges: Associate in Arts (AA); Associate in Arts, Elementary Education (AAEE); Associate in Arts, Fine Arts (AAFA); Associate in Business-General Requirements (ABUS-GR); Associate in BusinessSpecial Requirements (ABUS-SR); Associate in Science (AS); and all emphases of these degrees

## Academic Policies that Govern the Associate in General Studies Degree:

- The graduation policies within the general catalog must be satisfied (Administrative Regulation 2.3.9). First Year Experience is required (FYE 101 or FYE 103).
- A single course can simultaneously count toward a Core Area and a Distribution Area requirement. Courses that meet this criterion are bold print and underscored in the Core areas and Distribution areas (on the course list at the conclusion of this document). For example, CRE101 may be used to satisfy both the Literacy and Critical Inquiry requirement of the Distribution area and the Core curriculum's Critical Reading area. While multiple requirements can be met with a single course, the credits are only counted one time toward the required minimum for the degree. A course cannot satisfy more than one Core area, even if it is approved for more than one Core area. A course cannot satisfy more than one Distribution area, even if it is approved for more than one Distribution area.
- Credits transferred from outside of MCCCD must be completed with a grade of "C" (2.0 on a 4.0 scale) or better. Transfer credit graded pass/fail or pass/no credit may be transferred if documentation collected by the community college indicates that this was the only grading option available to the student and that the Pass grade ("P") is equivalent to a "C" or better.
- Completion of the AGS with a minimum Grade Point Average (on a 4.0 scale) of at least 2.0 for Arizona residents and 2.50 for non-residents meets Arizona public university general
admission requirements. However, meeting all AGS minimums does not ensure admission to specific university majors or programs with selective admission processes and/or limited enrollment. Furthermore, because the AGS is not designed to align with the requirements for bachelor's degrees, not all credits may be transferable and students may have deficiencies in lower division (100- and 200-level) courses for a particular major.


## Summary of Degree Requirements:

Details on how to identify courses approved for each of the categories is described following the outline.
I. Required Courses ..... 1-3
FYE101 Introduction to College, Career and Personal Success OR
FYE103 Exploration of College, Career and Personal Success
II. MCCCD General Education35-48*
Core Areas. ..... 13-19

1. First-Year Composition. ..... 6*
ENG101 OR ENG107 AND
ENG102 OR ENG108
2. Mathematics ..... 3-6
3. Computer Usage ..... 1
4. Oral Communication. ..... 3
COM100 Introduction to Human Communication ORCOM110 Interpersonal Communication ORCOM225 Public Speaking ORCOM230 Small Group Communication (3 credits) ORCOM100AA \& COM100AB \& COM100AC (3 credits) ORCOM110AA \& COM110AB \& COM110AC (3 credits)
5. Critical Reading ..... 0-3
Students may demonstrate proficiency through assessment.
CRE101 Critical Reading OR equivalent as indicated by assessment
Distribution Areas ..... 22-29
6. Humanities, Arts and Design ..... 9
Students are encouraged to choose course work from more than one discipline.
7. Social-Behavioral Sciences. ..... 6-9Students are encouraged to choose course work from more than one discipline. If COM100, COM110, orCOM230 is shared between the AGS' Core and Distribution areas, the Social-Behavioral Sciencesrequirements for the degree may be met with just 6 additional credits in this area (see Academic Policiessection on prior page). The credits for the shared COM course are only counted once, but they may beapplied to meet both Oral Communication and Social-Behavioral Science requirements.
8. Natural Sciences7-8Two lecture courses and one corresponding laboratory course are to be selected. Credits for lecture and labcomponents may be combined or each may carry separate credit. For appropriate course selection studentsshould consult with an academic advisor.

Alternatively, the Literacy and Critical Inquiry requirement may be met with a grade of "D" or better by selecting an additional 3 credits from the list of approved options.


#### Abstract

III. General Electives

Select additional courses 100 -level or higher to complete a minimum of 60 semester credits but no more than a total of 64 semester credits.


Associate in General Studies Total Credits:
*First-Year Composition may be met with fewer than 6 credits if student has transfer credit from ASU, NAU or UAZ for a single course that meets FYC in full.

All courses listed meet AGS requirements as specified. Courses in Purple Italic Underline also meet Arizona General Education Curriculum AGEC requirements.

Courses in bold print and underscored simultaneously count towards a Core Area and a Distribution requirement.

## AGS GENERAL EDUCATION CORE

( 16 credits - grade of "C" or better)*
First-Year Composition (6 credits)*
ENG English [101, 107$]$ \& [102, 1087

## Oral Communication ( $\mathbf{3}$ credits)

COM Communication 100, 100AA \& 100AB \& 100AC, 110, 110AA \& 110AB \& 110AC, 225, 230

## Critical Reading ( $\mathbf{3}$ credits)

CRE Critical Reading $\underline{101}$ or Equivalent as indicated by assessment

## Mathematics ( $\mathbf{3}$ credits)

MAT Mathematics $112,114,115,120,121,122,126,140,141,142,145,146,150,150 \& 182,151,151 \& 182$,
$152,152 \& 182,155,155 \& 182,156,156 \& 182,172,187,206,212,213,217,218,220,221,225$,
227, 230, 231, 240, 241, 256, 257, 276, 277, Equivalent course/ Satisfactory completion of a higher level Mathematics course.

## Computer Usage ( 1 credit)

Computer-related course or demonstration of comparable computer skills. Additional courses may be approved by individual colleges. Students should contact their advisor for college-specific courses satisfying the requirement.

## ACC Accounting 115

ADA Advertising Arts 169, 175, 177, 183, 283, 289
AJS Administration of Justice Studies 205
ARC Architecture 243, 244, 245
AVC Art and Visual Communication 100, 169, 170, 173, 175, 177, 179, any 180++ course, 183, 283, 289
BIO Biology 283
BPC Business-Personal Computers Any BPC Course(s), including 110
CIS Computer Information Systems Any CIS Course(s), including 105, 162AB, 162AD, 163AA (and except 159, 162AC, 217AM, 259,
CSC Computer Science Any CSC Course(s), including 100AA, 100AB, 110, 110AA, 110AB, 120, 150, 150AA, 180 180AA, 180AB, 181, 181AA, 181AB, 182, 182AA, 205, 205AA, 205AB, 205AC, 205AD, 283 (and except 200, 200AA, 200AB 210, 210AA, 210AB)
CTR Court Reporting 101, 102
DFT Drafting Technology 105AA**, 254AA
**Must be taken with CSC100AA or AB to meet AGEC value
ECH Early Childhood Education 238
EDU Education 115
EED Early Education 115
EEE Electrical Engineering 120

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ELE Electronic 131, 181, 241, 243, 245
ELT Electronic Technology 131, 243
(Computer Usage Continued)
ENG English 100AE
FON Food \& Nutrition 100
GBS General Business 221
GIS Geographic Information Science 205, 211
HRM Hotel Restaurant Management 126
JRN Journalism 133
LAS Paralegal Studies 229
MAT Mathematics 206
MTC Music Theory/Composition 180, 191
MUC Music: Commercial/Business \(\underline{180}\)
NET Networking Technology 181
OAS Office Automation Systems 111AA
PSY Psychology 230, 230WL
SWU Social Work 225
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## AGS GENERAL EDUCATION DISTRIBUTION AREAS <br> ( $28-29$ credits - grade of "D" or better)

## Humanities, Arts and Design (9 credits)

Students are encouraged to choose courses from more than one discipline.
AHU Arabic Humanities 245
AIS American Indian Studies 213
AJS Administration of Justice Studies 123
ARH Art Humanities Any ARH Course(s), including 100, 101, 102, 109, 110, 112, 115, 118, 145, 201, 203, 204, 217, 216, 240, 250
ART, Art $\underline{131}$
ASB Anthropology 211, 214, 220, 222, 223, 253
CCS Chicana and Chicano Studies 101
COM Communication 241
CON Construction 101(formerly CNS101)
DAH Dance Humanities 100, 201, 250, 255
EDU Education 230 (eff. Spring '22), 291, 292, 294
ENG English 200, 213, 218
ENH English Humanities Any ENH Course(s), including 110, 111, $\underline{112,113,114,117,130, ~ 140 A A, 190,201, ~ 202, ~ 204, ~}$ 206, 214, 221, 222, 230, 231, 232, 235, 241, 242, 245, 251, 253, 254, 255, 256, 259, 260, 275, 277, 277AE, 277AG, 277AA AK, 280, 284, 285, 291, 294, 295 (and except 250)
FMT Film, Media, and Theatre 107
FRE French 265
GST Game Studies 202
HCR Health Care Related 210
HIS History 101, 102, 103, 108, 110, 111, 113, 114, 203, 212, 251, 252
HON Honors 190
HUM Humanities Any HUM course(s), including 100, 101, 107, 108, 190AA, 190AB, 190AC, 190AD, 190AE, 190AF, 190AG, 190AH, 190AI, 201, 202, 205, 206, 209, 210, 211AA, 211AE, 212, 213, 214, 215, 216, 220, 235, 245, 250, 251, 260, 261, 292, 295 (and except 120, 225)
INT Interior Design 115, 120
LAT Latin 201, 202
MHL Music: History/Literature 140, 143, 145, 146, 153, 155, 194, 204, 241, 242, 295
PHI Philosophy Any PHI Course(s), including 101, 103, 104, 105, 201, 212, 213, 214, 215, 216, 218, 224, 233AA, 233A, 233AC, 244, 245, 250, 251, 282AC
REL Religious Studies Any REL Course(s), 100, 101, 151, 200, 202, 203, 205, 206, 207, 210, 211, 212, 213, 214, 218, $223,225,230,240,244,245,248,250,251,270,271,277,292,294,295,282 \mathrm{AA}-\mathrm{AC}, 290,291$
SLC Studies in Language \& Culture 201, 202
SPA Spanish 241, 242, 265, 266
SPH Spanish Humanities 241, 245
SSH Sustainability/Social Sciences and Humanities 111
STO Storytelling 292, 294
SWU Social Work 183
TEC Textiles and Clothing 105, 125
THE Theater 111, 220
THF Theatre and Film 205, 206, 210
THP Theater/Performance/Production 217, 241

## Social-Behavioral Sciences (6-9 credits)

Students are encouraged to choose courses from more than one discipline. Social-Behavioral Sciences requirements may be met with 6 credits only if COM100, COM110, or COM230 is shared between Core and Distribution (see Academic Policies section). The credits are only counted once, but may be applied to meet Oral Communication and Social-Behavioral Science requirements.

AFR African American Studies 202, 203, 204
AIS American Indian Studies 101, 140, 141,160
AJS Administration of Justice Studies 101, 119, 200, 225, 258, 270
ASB Anthropology 100, 102, 202, 211, 222, 223, 226, 230, 235, 252
ASM Anthropology 104/275
BHS Behavioral Health Services Technology 150, 155, 175210
CAP Counseling and Applied Psychology 120
CCS Chicana and Chicano Studies 202
CFS Child/Family Studies 112, 157, 159, 176, 205, 235, 259
COM Communication 100, 100AA\&100AB\&100AC, 110, 110AA\&110AB\&110AC, 163, 230, 250, 263
CPD Counseling and Personal Development 180
ECH Early Childhood Education 176
ECN Economics 160, 211, 212, 213, 250
EDU Education 221, 222
EED Early Education 200, 205, 222
EMT Emergency Medical Technology 258
ENG English 213
FOR Forensic Science 275
FSC Fire Science Technology 258
GCU Cultural Geography 102, 113, 121, 122, 141, 221
HES Health Science 100
HIS History any HIS Course(s), including 100, 101, 102, 103, 104, 105, 106, 108, 109, 113, 114, 140, 145, 173, 190, 201, 203, 204, 209, 240, 241, 242, 273, 277 (and except 111, 170, 251, 252)
HON Honors 201
HUM Humanities 235
IBS International Business 109
IFS Information Studies 201, 210, 213
MCO Mass Communications 120
MGT Management 229, 230
PAD Public Administration 200
POS Political Science Any POS course(s), including $100,101, \underline{110}, 113,114, \underline{115}, 120,125,130,140,180,210,221,222,223$, 281AB, 282AA-AC, 285
PSY Psychology 101, 123, 132, 156, 157, 215, 218, 225, 235, 240, 241, 243, 250, 260, 262, 266, 277, 280, 292
REC Recreation 120
SBU Society and Business 200
SLC Studies in Language \& Culture 201
SOC Sociology Any SOC course(s), including 101, 110, 130, 141, 157, 180, 212, 220, 241 251, 266, 270 (and except 143, 245, 253, 265)
SSH Sustainability/Social Sciences and Humanities 111
SUS Sustainability/Natural Sciences 110
SWU Social Work 171, 182, 250, 258, 295
TEC Textiles and Clothing $\underline{105}$
WED Wellness Education 110
WST Women's Studies 100, 161
YAQ Yaqui Indian History and Culture $\underline{100}$

## Natural Sciences (7-8 credits)

Two lecture courses and one corresponding laboratory course are to be selected. The lecture and corresponding laboratory course(s) may carry separate credit. For appropriate course selection students should consult with an advisor.

AGS Agricultural Science 164, 260
ASB Anthropology 231
ASM Anthropology 104, 265, 275
AST Astronomy 101, 106, 111, 112

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BIO Biology 100, 101, 102, 105, 107, 108, 109, 111, 145, 149AF, 149AH, 149AK, 149AL, 149AM, 149AN, 156, 156XT, 160,
    181, 181XT, 182, 182XT, 201, 201XT, 202, 205, 241
CHM Chemistry 107&107LL, 130&130LL, 130AA, 150&151LL,150AA, 151&151LL, 151AA,
    152&152LL, 152AA, 154&154LL, 230AA, 230&230LL
CON Construction 106 (formerly CNS106)
ENV Environmental Sciences 101
FON Food and Nutrition 241&241LL
FOR Forensic Science 105, 106, }27
GLG Geology 101&103, 101IN, 102&104, 102IN, 105, 106, 110&111, 110IN, 121, 140, 229AB-AC, 230AA-AC, 231AA-AD,
    280, 281, 282AA
GPH Physical Geography 111&112, 113, 211, 212&214, 213&215
PHS Physical Science 110, 115,120
PHY Physics 101, 101AA, 111, 111AA, 112, 115, 116, 121, 131
PSY Psychology 275, 290AB, 290AC
```


## Literacy and Critical Inquiry ( $0-3$ credits)

Literacy requirements may be met with 0 credits only if CRE101 or COM225 is shared between Core and Distribution (see Academic Policies section). The credits are only counted once, but may be applied to meet [Critical Reading and Literacy and Critical Inquiry] or [Oral Communication and Literacy and Critical Inquiry] requirements.

AIS American Indian Studies 203, 213
COM Communication 222, 225, 241
CAP Counseling and Applied Psychology 260
CPD Counseling and Personal Development 160
CRE Critical Reading 101, 201
CUL Culinary Arts 223
DAH Dance Humanities 255
EDU Education 220, 282AC
ENG English 111, 200, 215, 216, 217, 218
ENH English Humanities 241,253, 254, 255, 277AE, 277AG
EXS Exercise Science 290
FON Food and Nutrition 225
GBS General Business 233
GPH Physical Geography 267
HUM Humanities 225, 235, 250, 251
IFS Information Studies 201
JRN Journalism 201,234
MCO Mass Communications 220
MHL Music: History/Literature $\underline{204}$
PHI Philosophy 103, 218, 224, 244
POS Political Science 115
PSY Psychology 290AB, 290AC
REL Religious Studies 203, 205, 207, 244
SLC Studies in Language \& Culture 202
THE Theatre 220
THP Theatre Performance/Production 241

## Elective Courses ( $\mathbf{1 5 - 2 2}$ credits)

May select courses from prefixes already chosen for General Education Distribution requirements in order to develop depth in one or more subject areas.
*First-Year Composition may be met with fewer than 6 credits if student has transfer credit from ASU, NAU or UAZ for a single course that meets FYC in full.

## Maricopa County Community College District (MCCCD)

 2023-2024 Associate In Applied Science (AAS) Degree and General Education Requirements
## Description

The Associate in Applied Science (AAS) degree requires at least 60 credits in its program of study. The exact number of credits for a specific degree is identified as part of the presentation of its requirements at curriculum.maricopa.edu click on Current Programs or search in the offering college(s)' catalog.

## Purpose of the Degree

The Maricopa County Community College District Associate in Applied Science (AAS) degree is recommended for students who wish to gain a depth of technical expertise in a particular workforce-related area of study. The AAS degree options vary at the different MCCCD colleges and can be searched alphabetically (click on Current Programs) or by field of interest. Requirements for each degree can be found on the linked web pages and in the corresponding college(s)'s catalog.

## Academic Policies that Govern the AAS degree:

- Degree requires 60 or more credits numbered 100 or above and includes credits or the equivalent in the General Education Core areas and credits in the Distribution areas. AAS degree requirements follow with the use of a diagonal character (/) between course numbers to signify options. An asterisk (*) following the course number defines requirements with an effective begin term of spring;
- All courses must be completed with a grade of C or higher; any additional requirements such as grades of B or higher or minimum grade point average requirements are listed on individual degrees and certificates
- The graduation policies within the general catalog must be satisfied (Administrative Regulation 2.3.9). First Year Experience is required (FYE 101 or FYE 103).
- Some courses also have equivalent combinations of modular variants; all options are listed and completion of either the course or its modular equivalents will satisfy the AAS requirements.
- Requires completion of General Education courses as indicated in the General Education Requirements for the Associate in Applied Science degree from the Maricopa County Community College District, or completion of a curriculum as stated in the catalog
- Any course that is cross referenced with that of another discipline/subject (for example EDU/ENH291, Children's Literature) covers identical contents. A course under either subject (for example, EDU291 or ENH291) will count only once toward degree requirements.

```
AAS GENERAL EDUCATION CORE
(12-15 credits*)
Demonstrate college-level skills in the following areas:
First-Year Composition (6 credits*)
ENG English [101/107] & [102/108/111]
Oral Communication (3 credits)
COM Communication 100/100AA & 100AB & 100AC/110/110AA & 110AB &110AC/225/230
Critical Reading (3 credits)
CRE Critical Reading 101 or Equivalent as indicated by assessment
Mathematics (3 credits)
MAT Mathematics 112/114/115/120/121/122/126 140/141/142/145/146/150/ MAT150&182/151/MAT151&182/ 152/152&182/
155/155&182/156/156&182/172/187/206/212/213/217/218/220/221/225/227/230/231/240/241/256/257/276/277/equivalent
course/Satisfactory completion of a higher-level mathematics course
```

AAS GENERAL EDUCATION DISTRIBUTION AREAS

## (9-10 credits)

Humanities, Arts and Design (2-3 credits)
AHU Arabic Humanities 245
AIS American Indian Studies 213
AJS Administration of Justice Studies 123
ARH Art Humanities Any ARH Course(s)
ART Art 131
ASB Anthropology 211/214/220/222/223/253
CCS Chicana and Chicano Studies 101
COM Communication 241
CON Construction 101 (formerly CNS 101)
DAH Dance Humanities 100/201/250/255
EDU Education 230/291/292/294
ENG English 200/213/218
ENH English Humanities Any ENH Course(s)
FMT Film, Media, and Theatre 107
FRE French 265
GST Game Studies 202
HCR Health Care Related 210
HIS History 101/102/103/108/110/111/113/114/203/212/251/252
HON Honors 190
HUM Humanities Any HUM course(s) (except 120, 225)
INT Interior Design 115/120
LAT Latin 201/202
MHL Music: History/Literature 140/143/145/146/153/155/194/ 204/241/242/295
PHI Philosophy Any PHI Course(s)
REL Religious Studies Any REL Course(s)
SLC Studies in Language \& Culture 201/202
SPA Spanish 241/242/265/266
SPH Spanish Humanities 241, 245
SSH Sustainability/Social Sciences and Humanities 111
STO Storytelling 292/294
SWU Social Work 183
TEC Textiles and Clothing 105, 125
THE Theatre 111/220
THF Theatre and Film 205/206/210
THP Theatre Performance/Production 217, 241
WST Women's Studies 209/284/285/290

## Social-Behavioral Sciences (3 credits)

AFR African American Studies 202/203/204
AIS American Indian Studies 101/140/141/160
AJS Administration of Justice Studies 101/200/225/258/270
ASB Anthropology 100/102/202/211/222/223/226/230/235/252
ASM Anthropology 104/275
BHS Behavioral Health Services Technology 150, 155, 175, 210
CAP Counseling and Applied Psychology 120

| CCS | Chicana and Chicano Studies 202 |
| :---: | :---: |
| CFS | Child/Family Studies 112/157/159/176/205/235/259 |
| COM | Communications 100/100AA\& $100 \mathrm{AB} \& 100 \mathrm{AC} / 110 / 110 \mathrm{AA}$ \& 110 AB \& 110AC/163/230/250/263 |
| CPD | Counseling and Personal Development 180 |
| ECH | Early Childhood Education 176 |
| ECN | Economics Any ECN course(s) |
| EDU | Education 221/222 |
| EED | Early Education 200/205/222 |
| EMT | Emergency Medical Technology 258 |
| ENG | English 213 |
| FOR | Forensic Science 275 |
| FSC | Fire Science 258 |
| GCU | Cultural Geography 102/113/121/122/141/221 |
| HES | Health Science 100 |
| HIS | History Any HIS course(s) (except 111,170, 251, 252) |
| HON | Honors 201 |
| HUM | Humanities 235 |
| IBS | International Business 109 |
| IFS | Information Studies 201, 210, 213 |
| MCO | Mass Communications 120 |
| MGT | Management 229/230 |
| PAD | Public Administration 200 |
| POS | Political Science Any POS course(s) |
| PSY | Psychology 101/123/132/156/157/215/218/225/235/240/241/243/250/260/262/266/277/280/292 |
| REC | Recreation 120 |
| SBU | Society and Business 200 |
| SLC | Studies in Language \& Culture 201 |
| SOC | Sociology Any SOC course(s) (except 143, 245, 253, 265) |
| SSH | Sustainability/Social Sciences and Humanities 111 |
| SUS | Sustainability/Natural Sciences 110 |
| SWU | Social Work 171/182/250/258/295 |
| TEC | Textiles and Clothing 105 |
| WED | Wellness Education 110 |
| WST | Women's Studies 100/161 |
| YAQ | Yaqui Indian History and Culture 100 |

## Natural Sciences (4 credits)

The lecture course(s) selected for Natural Sciences must include or be accompanied by the corresponding laboratory course. The lecture and corresponding laboratory course(s) may carry separate credit. Students should consult with an advisor for appropriate course selection.

| AGS | Agricultural Science 164, 260 |
| :--- | :--- |
| ASB | Anthropology (Soc/Behavioral. Science) 231 |
| ASM | Anthropology (Science/Math) 104/265/275 |
| AST | Astronomy 101/106/111/112 |
| BIO | Biology 100/101/102/105/107/108/109/111/145/ 149AN/156/156XT/160/181/181XT/182/182XT/201/201XT/ <br> $202 / 205 / 241$ <br> Chemistry 107\&107LL/130\&130LL/130AA/ 150AA/150\&151LL/151AA/151\&151LL/152AA/152\&152LL/154\&154LL/ <br> CHM |
|  | 230\&230LL |
| CON | Construction 106 (formerly CNS106) |
| ENV | Environmental Sciences 101 |
| FON | Food and Nutrition 241\&241LL |
| FOR | Forensic Science 105/106/275 |
| GLG | Geology Any combination of GLG course(s) meeting the minimums described above <br> GPH |
| Physical Geography 111\&112/113/211/212\&214/ 213\&215 |  |
| PHS | Physical Science 110/115/120 |
| PHY | Physics 101/101AA/111/111AA/112/115/116/ 121/131 |
| PSY | Psychology 275/290AB/290AC |

* FYC may be met with fewer than 6 credits if student has transfer credit from ASU, NAU or UAZ for a single course that meets FYC in full.


## Maricopa County Community College District (MCCCD) 20232024 Academic Certificate (AC)

## Purpose of the Academic Certificate

The Maricopa County Community College District Academic Certificate (AC) is a defined and coherent program of study that is recommended for students who wish to gain additional expertise in a specific area of emphasis in an academic discipline. While this program of study can result in proficiency in the specified skills and competencies, as well as mastery of a body of knowledge, it is not designed to prepare someone for employment in a specific occupation. The coursework for an Academic Certificate may be from a variety of disciplines or it can be discipline specific. There is no required general studies component to an Academic Certificate; however, the program may include some courses that have specific general education (AGEC) designations such as Humanities, Arts and Design [HU], Social-Behavioral Sciences [SB], Literacy and Critical Inquiry [L], or Cultural Awareness [C]. (See AGEC matrix for current course values.)

## Academic Policies that Govern the Academic Certificate:

- Although the program of study for an Academic Certificate (AC) does not have a mandated minimum number of credit hours, most ACs require approximately 12-39 credit hours in courses numbered 100 and above; students must have earned a minimum of 6 credits toward the certificate at the institution awarding the certificate. For certificates with less than 6 credit hours, all credits must be completed at the college granting the award.
- Students must earn a grade of C or better in each course in the program.
- Follows the graduation policies listed in the college's general catalog for the appropriate catalog year.
- Any course cross-referenced under another prefix(es) (for example ENH291/EDU291-Children's Literature) covers identical content and its credits can only be counted once toward certificate requirements.
- Although ACs may include a subset of coursework required in particular transfer degrees, the intent of an AC is not to align with any specific university major. There is no presumption of block transfer to another college or university.
- May have admission criteria established by the college if and when appropriate.
- Generally offered at a limited number of colleges. For a listing of all ACs available in the district and their affiliated college(s) see the CCTA web site.


## Course Descriptions



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## Course Subject Listing

Subject Title
AAA - Advancing Academic Achievement
ACC - Accounting
AES - Aerospace Studies
AFR - African American Studies
AHU - Arabic Humanities
AIS - American Indian Studies
AJS - Administration of Justice Studies
ALT -- Academic Literacy
ARC - Architecture
ARH - Art Humanities
ART - Art
ASB, ASM - Anthropology
ASL - American Sign Language
AST - Astronomy
AVC - Art and Visual Communication
BIO-Biology
BPC - Business-Personal Computers
CAD - Computer-Aided Drafting
CCS - Chicana and Chicano Studies
CFS - Child/Family Studies
CHM - Chemistry
CIS - Computer Information Systems
CLD - Cloud Computing
CNT - Cisco Network Technology
COM - Communication
CON - Construction
CPD - Counseling and Personal Development
CRE - Critical Reading
CRW - Creative Writing
CSC - Computer Science
CUL - Culinary Arts
CWE - Career Work Experience
DAE - Dental Assisting Education
DAH - Dance Humanities
DAN - Dance
DHE - Dental Hygiene Education
ECE - Engineering Science
ECH - Early Childhood Education
ECN - Economics
EDU - Education
EED - Early Education
EEE - Electrical Engineering
ELE - Electronic
EMT - Emergency Medical Technology
ENG - English

ENH - English Humanities
EPS - Entrepreneurial Studies
ESL - English As a Second Language
FMP - Film and Media Production
FMT - Film, Media, and Theatre
FON - Food and Nutrition
FOR - Forensic Science
FRE - French
FSC - Fire Science Technology
FYE - First Year Experience
GBS - General Business
GCU - Cultural Geography
GIS - Geographic Information Science
GLG - Geology
GPH - Physical Geography
HCC - Health Core Curriculum
HCR - Health Care Related
HES - Health Science
HIM - Health Information Management
HIS - History
HST - Histologic Technology
HUM - Humanities
IBS - International Business
INT - Interior Design
IPP - Interpreter Preparation Program
ITS - Information Technology Security
LAS - Paralegal Studies
LBA - Laboratory Assisting
LDR - Leadership
MAS - Medical Assisting
MAT - Mathematics
MDL - Medical Laboratory Science
MGT - Management
MHL - Music: History/Literature
MIS - Military Science
MKT - Marketing
MMT - Multimedia Technology
MNT - Micro and Nano Technology
MST - Microsoft Technology
MTC - Music: Theory/Composition
MUC - Music: Commercial/Business
MUE - Music Education
MUP - Music: Performance
NAV - Navajo
NUR - Nursing Science: Basic
NVH - Navajo Humanities
PAD - Public Administration
PED - Physical Education
PHI - Philosophy

PHS - Physical Science
PHY - Physics
PLB - Phlebotomy
PME-Paramedicine
POS - Political Science
PSA - Public Safety Administration
PSY - Psychology
RDG - Reading
REC-Recreation
REL - Religious Studies
RPM - Recreation Program Management
SBS - Small Business Management
SBU - Society and Business
SOC - Sociology
SPA - Spanish
SPH - Spanish Humanities
SPT - Sports
SSH - Sustainability/Social Sciences and Humanities
SWU - Social Work
TEC - Textiles and Clothing
THE - Theatre
THF - Theatre and Film
THO - Theatre Occupational
THP - Theatre Performance/ Production
WED - Wellness Education
WST - Women's Studies

All courses listed in this catalog are not offered every semester. Check in the Class Schedule for current course offerings. On the web, go to https://classes.sis.maricopa.edu/

## AAA-Advancing Academic Achievement

## AAA/CPD115

Creating College Success
1 credit(s) 1 period(s) lecture
Strategies to create success in college. Methods for selecting and developing effective academic strategies, increasing self-awareness and developing self- management strategies. Elements of college resources and relationships with others explored in support of students' educational experience.
Prerequisites: None.
AAA/CPD150
Strategies for College Success
3 credit(s) 3 period(s) lecture
Focus on increasing student success through college orientation and personal growth, study skills development, and educational and career planning. Prerequisites: None.

## AAA/CPD150AA

College Orientation/Personal Growth 1 credit(s) 1 period(s) lecture
Emphasis on increasing student success through college orientation, identification of learning style and the use of time management, goal-setting, and interpersonal communication strategies. Prerequisites: None.

AAA/CPD150AB
Study Skills Development
1 credit(s) 1 period(s) lecture
Emphasis on increasing student success through the use of study strategies including materials organization, note-taking, reading, test-taking, memory and critical and creative thinking. Prerequisites: None.

AAA/CPD150AC
Educational and Career Planning
1 credit(s) 1 period(s) lecture
Emphasis on increasing student success through educational and career planning. Prerequisites: None

## $\underline{\text { ACC - Accounting }}$

ACC105
Payroll, Sales and Property Taxes
3 credit(s) 3 period(s) lecture
Tax reporting for payroll, sales, and personal property. Prerequisites: None.

## ACC111

## Accounting Principles I

3 credit(s) 3 period(s) lecture
Fundamental theory of accounting principles and procedures. Prerequisites: None.

## ACC112

Accounting Principles II
3 credit(s) 3 period(s) lecture
Continuation of the fundamental theory of accounting principles and procedures, including interpretation of general-purpose financial statements. Prerequisites: ACC111 with a grade of C or better or permission of Department or Division.

## ACC115

Computerized Accounting
3 credit(s) 3 period(s) lecture + lab
Understanding of fundamental accounting principles and mastery of an accounting information systems including the general ledger, accounts receivable, accounts payable and payroll.
Prerequisites: None.

## ACC121

Individual Tax Preparation
3 credit(s) 3 period(s) lecture + lab
Theory and practice of accounting for individual taxation. Prerequisites: None.
ACC211 ACC 2201 suns

## Financial Accounting

3 credit(s) 3 period(s) lecture
Introduction to theory and practice in the preparation and interpretation of general-purpose financial statements. Prerequisites: None

ACC212 ACC 2202 suxw
Managerial Accounting
3 credit(s) 3 period(s) lecture
Development and analysis of accounting information for managerial planning and control.
Prerequisites: A grade of C or better in (ACC111 and ACC112) or ACC211 and (CIS105 or permission of Department or Division).

## ACC216

## Fraud Examination

3 credit(s) 3 period(s) lecture
Fundamental theory of fraud examination methodology to detect and prevent accounting fraud.
Prerequisites: A grade of C or better in (ACC230 or ACC112 or ACC211) or permission of Department or Division.

## ACC219

## Intermediate Accounting I

3 credit(s) 3 period(s) lecture
Continuation of the theory and practice of financial accounting, applicable to assets, liabilities, equity related problems of income determination and financial reporting. Prerequisites: A grade of C or better in ACC212 or ACC240 or permission of Department or Division.

## ACC220

## Intermediate Accounting II

3 credit(s) 3 period(s) lecture Continuation of the theory and practice of financial accounting, applicable to assets, liabilities, equity determination of asset values, liabilities, and related problems of income determination, special topics and financial reporting. Prerequisites: A grade of C or better in ACC219 or permission of Department or Division.

## ACC221

## Tax Accounting

3 credit(s) 3 period(s) lecture
Theory and practice of accounting for personal, corporate, and non-corporate taxation. Prerequisites: A grade of C or better in ACC111 or ACC211 or permission of Department or Division.

## ACC260

## Certified Bookkeeper (CB) Preparation

3 credit(s) 3 period(s) lecture
Fundamental accounting practices including accrual and deferral adjustments, correcting common transaction recording errors, bank reconciliations and adjusting entries. Includes payroll accounting and related Federal and State payroll law requirements. Accounting for depreciation for financial and tax accounting purposes covered. Inventory valuation methods. Includes calculating, recording, and reporting under generally accepted accounting principles (GAAP). Preventive internal control procedures to detect organizational fraud, theft, and embezzlement covered. Prerequisites: A grade of C or better in ACC111, or ACC211, or (bookkeeping experience and permission of Instructor).

## ACC270AA

Accounting Internship
1 credit(s) 1 period(s) lab
Accounting work experience in a business or industry. Eighty hours of designated work per credit per semester. Prerequisites: Permission of Department or Division. Course Notes: ACC270AA may be repeated for a total of four (4) credits.

## ACC270AB

Accounting Internship
2 credit(s) 2 period(s) lab
Accounting work experience in a business or industry. Eighty hours of designated work per credit
totaling 160 hours per semester Prerequisites: Permission of Department or Division. Course Notes: ACC270AB may be repeated for a total of four (4) credits

## ACC270AC

Accounting Internship
3 credit(s) 3 period(s) lab
Accounting work experience in a business or industry. Eighty hours of designated work per credit totaling 240 hours per semester. Prerequisites: Permission of Department or Division. Course Notes: ACC270AC may be repeated for a total of six (6) credits.

ACC298AA-AC
Special Projects
$\mathbf{1 - 3}$ credit(s) 1-3 period(s) lab
Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance.
Professional-type facilities and equipment are made available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development.
Prerequisites: None.

## AES - Aerospace Studies

## AES101 <br> Heritage and Values I <br> 2 credit(s) 2 period(s) lecture and lab

Survey course designed to introduce students and cadets to the Department of the Air Force (DAF) and the Air Force Reserve Officer Training Corps (AFROTC). The course allows students and cadets to examine general aspects of the DAF, leadership fundamentals, service benefits, and opportunities for officers. The course also lays the foundation for becoming an Airman or Guardian by outlining our heritage and values. As a foundational course, this course provides a historical perspective such as lessons on war and US military, DAF operations, principles of war, and airpower. Prerequisites: None.

## AES103 <br> Heritage and Values II <br> 2 credit(s) 2 period(s) lecture and lab

Survey course designed to introduce students and cadets to the Department of the Air Force (DAF) and the Air Force Reserve Officer Training Corps (AFROTC). The course allows students and cadets to examine general aspects of the DAF, leadership fundamentals, service benefits, and opportunities for officers. The course also lays the foundation for becoming an Airman or Guardian by outlining our heritage and values. As a foundational course, this course provides a historical perspective such as lessons on war and US military, DAF operations, principles of war, and airpower. Prerequisites: None

## AES201

## Team and Leadership Fundamentals I

## 2 credit(s) 2 period(s) lecture and lab

A survey course designed to provide a fundamental understanding of both leadership and team building. Students and cadets will learn that there are many layers to leadership, including aspects that do not always come to mind. Such things include listening, understanding themselves, being a good follower, and problem solving efficiently. Students and cadets will apply these leadership perspectives when completing team building activities and discussing things like conflict management. Students and cadets should demonstrate basic verbal and written communication skills. Prerequisites: None.

## AES203

## Team and Leadership Fundamentals II

## 2 credit(s) 2 period(s) lecture and lab

A survey course designed to provide a fundamental understanding of both leadership and team building. Students and cadets will learn that there are many layers to leadership, including aspects that do not always come to mind. Such things include listening, understanding themselves, being a good follower, and problem solving efficiently. Students and cadets will apply these leadership perspectives when completing team building activities and discussing things like conflict management. Students and cadets should demonstrate basic verbal and written communication skills. Prerequisites: None.

[^5]
## AFR - African American Studies

## AFR/ASB/CCS202

## Ethnic Relations in the United States

 3 credit(s) 3 period(s) lectureBasic concepts and processes, including historic overview, of interethnic relations in the United States:
culture, race, ethnicity, ethnocentrism, prejudice, discrimination, racism, assimilation, acculturation, and individual and group responses to interethnic contact. Cultural knowledge and intercultural communication skills and perspectives as fundamental tools for successful management of social relations in a multicultural world. Prerequisites: None.

## AHU - Arabic Humanities

## AHU245

Arabic Culture and Islam
3 credit(s) $\mathbf{3}$ period(s) lecture
A survey of Arab heritage in the Arab world (Middle East). Cultural and social institutions and their contribution to the development of the region and its heritage. Prerequisites: None.

## AIS - American Indian Studies


#### Abstract

AIS101 Survey of American Indian Issues 3 credit(s) 3 period(s) lecture Introduction to critical issues related to American Indian peoples. Examines cultural, political, economic, educational, social, and environmental issues. Focuses on contemporary issues and factors influencing American Indian communities. Prerequisites: None.


## AIS/SOC105

## Introduction to American Indian Studies

3 credit(s) 3 period(s) lecture
Introduction to political, economic, and social structures of American Indian Nations. Provides overview of American Indian tribal cultures prior to contact, the impact of European contact, and the influence of western social systems on tribal nations. Prerequisites: None.

## AIS110 <br> Navajo Government <br> 3 credit(s) 3 period(s) lecture

Addresses and examines major historical developments of the Navajo People with a focus on government, law, society, livelihood, tradition, and culture. Includes the major components and operation of Navajo government and related tribal laws, such as Title II and Title VII of the Navajo Nation Code, as well as the significance of the Treaty of 1868 . Federal Indian policies and their impact on Navajo society and government, the importance of federal and tribal citizenship and related federal and tribal laws, and the role of the Navajo clanship system and other relevant cultural concepts addressed. Prerequisites: None.

## AIS/SOC112 <br> American Indian Policy <br> 3 credit(s) 3 period(s) lecture

Reviews United States government policies and their impact on American Indian sovereignty. Examines historic, legal, economic, and social issues regarding Indian policies and how they impact Indian Nations and individual Indians. Studies historical as well as contemporary policies created by the Federal Government that define the trust relationship between the United States government and Indian Nations. Prerequisites: None.

## AIS/HIS140

## American Indian History

3 credit(s) 3 period(s) lecture
Survey of American Indian history with emphasis on the last 200 years. Focuses on cultural, economic, political and social continuity and changes. Topics include how federal policies impacted and were shaped by Indigenous peoples and how Indigenous individuals, communities, and nations have maintained cultural identity and sovereignty. Prerequisites: None.

## AIS/SOC141

## Sovereign Indian Nations

3 credit(s) 3 period(s) lecture
Explores the sovereign status of American Indians as it relates to social relationships, traditions and culture of American Indians. Reviews historic relations with non-Indian societies, the development of
federal Indian law, tribal government, other current issues, and contemporary social problems.
Prerequisites: None

## AIS/SOC160 <br> American Indian Law

3 credit(s) 3 period(s) lecture
Analyzes the legal system of the United States Government as it applies to American Indian Nations. Examines how United States legal institutions have impacted Indian sovereignty. Units of analysis include the development of Indian law, United States Supreme Court decisions, Congressional Acts, treaty rights and the development of tribal governments. Focuses on legal institutions that have abridged the property rights of Indian Nations. Prerequisites: None.

## AIS/HIS170 <br> American Indian History of the Southwest <br> 3 credit(s) 3 period(s) lecture

Covers history of American Indian Peoples of the Southwestern United States from pre-European contact era to the present. Includes historical events, the development and implementation of nonIndigenous policies and their impact on American Indian Peoples in these areas, and contemporary issues of importance. Prerequisites: None.

## AIS213 /REL203

## American Indian Religions

3 credit(s) 3 period(s) lecture
An examination of the historical and cultural background of diverse lifeways and worldviews belonging to the peoples indigenous to the North American continent over time, including a study of modern day American Indian beliefs and practices. Prerequisites: A grade of C or better in ENG101 or ENG107 or equivalent.

## AIS298AA-AC

## Special Projects

1-3 credit(s) 1-3 period(s) lab
Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance. Professional-type facilities and equipment are made available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development. Prerequisites: None.

## AJS - Administration of Justice Studies

AJS101 AJS 1101 बuns<br>Introduction to Criminal Justice<br>3 credit(s) 3 period(s) lecture

An introduction to crime and society's responses to it. Examines the nature and causes of crime, the criminal law, constitutional safeguards, and the organization and operation of the criminal justice system including the police, courts, jails, prisons, probation and parole departments, and community corrections agencies. Covers the history of the criminal justice system, terminology and career opportunities.
Prerequisites: None.


#### Abstract

AJS107 Patrol Procedures 3 credit(s) 3 period(s) lecture Specialized areas of the patrol function, including responding to crowds, riots, bomb threats, intoxication, hazardous materials, fires, and domestic disputes. Partially fulfills Arizona POST requirements for proficiency skills academy attendance. Prerequisites: None.


#### Abstract

AJS109 Substantive Criminal Law 3 credit(s) 3 period(s) lecture Covers philosophy of legal sanctions and historical development from the common law to modern American criminal law, classifications of crimes, elements of and parties to crimes, general definition of crimes, common defenses utilized. Includes specific offenses and the essential elements of each offense. Prerequisites: None.


#### Abstract

AJS110 Law and Legal Review I 3 credit(s) 3 period(s) lecture In-depth study of the Arizona laws governing arrest by peace officers, as well as an intensive study of the Arizona substantive criminal law code (ARS Title 13). Focuses on specific sections of ARS Title 4 and ARS Title 8, as they apply to peace officers in Arizona. Partially fulfills the Arizona POST Board requirements for Proficiency Skills Academy attendance. Prerequisites: None.


## AJS113 <br> Criminal Justice Crime Control Policies and Practices 3 credit(s) 3 period(s) lecture

Focus on changing the distribution of crime opportunities rather than offender motivation. Topics include application of situational crime prevention strategies, problem-oriented crime control approaches, hot spots policing, and crime prevention through environmental design. Prerequisites: None.


#### Abstract

AJS119 Computer Applications in Justice Studies $\mathbf{3}$ credit(s) $\mathbf{4}$ period(s) lecture + lab Provides literacy in microcomputer applications in major areas of the criminal justice system. Examines availability and uses of current software packages in criminal justice work. Provides hands-on experience with appropriate integrated software packages pertaining to justice studies. Prerequisites: None.


AJS123<br>Ethics and the Administration of Justice<br>3 credit(s) 3 period(s) lecture

Introduces and explores ethical issues and the justice system. Focuses on ethics and the law, the police, courts and corrections. Reviews ethical theory, concepts and practices as they relate to administration of justice. Explores issues of how media/social media shape ethics. Encourages critical thinking and value decision making in criminal justice system situations. Prerequisites: None.


#### Abstract

AJS124 Correctional Institutions 3 credit(s) 3 period(s) lecture An examination of correctional institutions with an emphasis on personnel and security measures, care and treatment programs and institutional planning. The criminal justice system and matters of custody and treatment. Inmate subcultures, and organized crime in correctional institutions and jails.


## Prerequisites: None.


#### Abstract

AJS131 Police Management Techniques I 3 credit(s) $\mathbf{3}$ period(s) lecture Police supervisory techniques for planning, organization coordination, reporting, budgeting and handling related personnel problems. Prerequisites: None.


## AJS/FSC148 <br> Fundamentals of Emergency Management <br> 3 credit(s) 3 period(s) lecture

Emergency management systems including career opportunities, function, tasks and responsibilities of the emergency management program manager, role of the emergency manager in mitigation, preparedness, response, and recovery. Past civil defense and current emergency management systems since evolution from World War II. Prerequisites: None.

## AJS150 <br> Defensive Tactics <br> 1 credit(s) 1 period(s) lecture

Skills in the protection against persons armed with dangerous and deadly weapons, demonstration and drill in a limited number of holds and come-a longs, and restraint of prisoners and the mentally ill. May be repeated twice for credit. Prerequisites: None.


#### Abstract

AJS162 Domestic Violence 3 credit(s) 3 period(s) lecture Explores domestic violence as a social problem within the United States from historical, cultural, political, legal, and law enforcement perspectives. Provides an overview of theories, definitions and causes of, and interventions for domestic violence involving spousal, elder and child abuse along with teen dating violence. Examines the dynamics and effects of domestic violence. Addresses research issues and contemporary domestic violence policy. Prerequisites: None.


## AJS192

Serial Killers and Mass Murderers
3 credit(s) 3 period(s) lecture
The study of serial killers, mass murderers and their victims. Examines the history and frequency of
these crimes, profiles the killers and their victims, explores theories of causation, and discusses the problems and techniques of investigation, prosecution, punishment, and prevention. Prerequisites: None.

## AJS198AB <br> Special Topics in the Administration of Justice <br> 1 credit(s) 1 period(s) lecture

Explores special topics related to the administration of justice with an emphasis on current issues.
Prerequisites: None. Course Note: AJS198AB may be repeated for a total of nine (9) credit hours.
AJS200
Current Issues in Criminal Justice
3 credit(s) 3 period(s) lecture
Examines current issues, techniques, and trends in the Criminal Justice System. Prerequisites: None.


#### Abstract

AJS201

\section*{Rules of Evidence}

3 credit(s) 3 period(s) lecture A practical insight into the rules of evidence to include how to recognize evidence: the general rules governing admissibility of evidence; the hearsay rule and its exceptions; the use of documentary evidence, written memoranda, photographs, recordings and electronic surveillance; corpus delicti; opinion evidence, circumstantial evidence, evidential privileges. Prerequisites: None.


## AJS205 <br> Effective Communication and Report Writing in Criminal Justice 3 credit(s) 3 period(s) lecture

Overview of effective communication for criminal justice agencies. Covers the communication process and flow. Written communication emphasized with report writing, including characteristics of reports and field notes, and the importance and uses of each. Form, style, and procedures for writing various reports, including elements of composition, required substance, proper and improper conclusions, and descriptions of persons and property. Prerequisites: None.

## AJS210

## Constitutional Law

3 credit(s) 3 period(s) lecture
An examination of the U.S. Constitution as it relates to the law enforcement function. Includes statutory law and judicial decisions governing the areas of arrest, search and seizure, interrogations and confessions, self-incrimination and other constitutional guarantees. Required in AJS curriculum.
Prerequisites: None.

## AJS212

Juvenile Justice Procedures
3 credit(s) 3 period(s) lecture
Examines the nature and extent of juvenile delinquency to the present. Including but not limited to the history, jurisdictions, terminology, procedures, and institutions of the juvenile justice system.
Prerequisites: None.

## AJS213 <br> Evidence Technology: Fingerprints

## 3 credit(s) $\mathbf{3}$ period(s) lecture

Covers the fundamental principles of fingerprints, including the history of fingerprint classification, the biology of friction ridge skin, pattern analysis, comparison, and identification as well as their application in significant court cases. Also includes techniques for obtaining inked prints and developing and preserving latent prints. Prerequisites: None.

## AJS214

## Evidence Technology/Photography

3 credit(s) 3 period(s) lecture
The use of photography and other aids in identification and preservation of evidence such as fingerprints, footprints and impressions. Techniques in crime scene and traffic accident photography. Prerequisites: None.

## AJS215 <br> Criminalistics: Physical Evidence <br> 3 credit(s) 3 period(s) lecture

The scientific analysis and examination of physical evidence with emphasis on scientific investigation, recognition, collection, and preservation of evidence. Discussion topics include fingerprints, shoe prints, tool marks, firearms identification, paint chips and arson. Prerequisites: None.

AJS216
Criminalistics: Biological Evidence
3 credit(s) $\mathbf{3}$ period(s) lecture
The scientific analysis and examination of biological evidence with emphasis on collection and preservation of evidence. Topics discussed include blood, drugs, blood alcohol, hairs and fibers, and topics of special interest in criminalistics. Prerequisites: None.

## AJS220 <br> Transnational Organized Crime 3 credit(s) 3 period(s) lecture

The study of organized crime on a domestic and global scale. Examines the history, structure, and activities of domestic and transnational organized crime groups. Explores domestic and global responses to transnational organized crime, along with accompanying challenges and future implications.

## Prerequisites: None.

## AJS223

## Forensic Pathology: Death Investigation

3 credit(s) 3 period(s) lecture
An examination of the medical investigation of sudden, unnatural, unexplained or violent deaths. Explains the legal and medical roles of death investigators and medical examiners. Additional topics include the autopsy, documenting and evaluating the body, routine and special investigative techniques, and death event reconstruction. Prerequisites: None.

## AJS225 <br> Criminology

3 credit(s) 3 period(s) lecture
Study of deviance, society's role in defining behavior; theories of criminality and the economic, social, and psychological impact of crime; relationships between statistics and crime trends. Examines crime victimization and the various types of crimes and categories of offenders. Required in the AJS
curriculum. Prerequisites: None.
AJS230
The Police Function
3 credit(s) 3 period(s) lecture
Theories of procedures and methods of operations of public police with emphasis on discretionary powers available to the working police officer. Career opportunities and current trends in law enforcement presented. Prerequisites: None.

AJS240
The Correction Function
3 credit(s) 3 period(s) lecture
Examines the history and development of correctional theories and institutions. Prerequisites: None.

## AJS260 <br> Procedural Criminal Law <br> 3 credit(s) 3 period(s) lecture

Concerned with the understanding of procedural criminal law. Examines the processes and procedures followed by law enforcement, attorneys, and the courts in the apprehension and prosecution of criminal offenders. Examines the rationale underlying major court holdings impacting the criminal justice process, the procedural requirements that stem from these holdings and their effect on the daily operations of the criminal justice system. Prerequisites: None.

## AJS270

Community Relations
3 credit(s) 3 period(s) lecture Examination, recognition and understanding of community problems; community action programs; methods of coping with human behavior, victimology, conflict, and communication; ethnic and minority cultures and environments; the community and relationships with the criminal justice system. Prerequisites: None.

## AJS275

## Criminal Investigation I

3 credit(s) 3 period(s) lecture Introduction to the theory of criminal investigation. Examines crime scene procedures, case preparation, interviewing, and basic investigative techniques.
Prerequisites: None.
AJS/FSC276
Terrorism Liaison
4 credit(s) 4 period(s) lecture + lab
Provides knowledge and skills required for the Terrorism Liaison Officer (TLO) role to coordinate and communicate with various fire, police, and military agencies in managing threat vulnerability and other emergency disasters. Prerequisites: Permission of Program Director. Course Note: AJS/FSC276 is not open to the public.

## AJS/FSC277

Threat Vulnerability Assessment
1 credit(s) 1 period(s) lecture + lab
Provides a historical perspective of threats and the activities and methods used by first responders to identify and mitigate future threats. Introduces and examines threat vulnerability of critical infrastructure
within jurisdictions. Provides assessment techniques for responding agencies. Prerequisites: Permission of Program Director. Course Note: AJS/FSC277 is not open to the public.

## AJS/FSC278 <br> Hostile Intent and Intervention Training <br> 2 credit(s) 2 period(s) lecture + lab

Provides knowledge and skills required to detect and anticipate terrorist activities as a member of a Hostile Intent and Intervention Team (HIIT). Prerequisites: Permission of Program Director.
Course Note: AJS/ FSC278 is not open to the public.


#### Abstract

AJS/FSC279 Field Intelligence Team Training 3 credit(s) 3 period(s) lecture + lab Provides knowledge and skills required for situational awareness of suspicious activities and the deployment of first responders for mitigation and investigation for the Field Intelligence Team (FIT). Prerequisites: Permission of Program Director. Course Note: AJS/FSC279 is not open to the public.


#### Abstract

AJS/FSC280 Terrorism Hazmat First Responder Training 4 credit(s) 4 period(s) lecture + lab Provides knowledge and skills to understand the chemistry of reactive and unstable hazardous materials, the toxicology of dangerous chemicals, and the measures taken to protect the safety of responders, the community, and the environment of chemical accidents. Also includes an introduction to field sampling of unknown substances for the Field Intelligence Team (FIT) and the Hostile Intent and Intervention Team (HIIT). Prerequisites: Permission of Program Director. Course Note: AJS/ FSC280 is not open to the public.


## AJS290 Courses

Course topics presented are selected from a variety of subjects designed to meet the needs and interests of persons desiring in-service education and training. AJS290 courses may be repeated for credit provided it is not a repeat of the same topic. Courses may not transfer to other colleges and universities.

AJS290AU
Child Abuse Investigation
1 credit(s) 1 period(s) lecture
Definition and investigation of the causes and effects of child abuse. Prerequisites: None.

## AJS290AW

Narcotics and Dangerous Drugs
1 credit(s) 1 period(s) lecture
Pharmacological effects of the use and abuse of drugs, including a description of common abuse patterns and investigative techniques used in the enforcement of drug laws. Prerequisites: None.

## AJS290AZ

Police Interrogation Techniques
1 credit(s) 1 period(s) lecture
Proper interview and interrogation techniques, including a discussion of the constitutional rights of the defendant and applicable court decisions. Prerequisites: None.

AJS290BN

## Courtroom Testimony Seminar

1 credit(s) 1 period(s) lecture
Courtroom demeanor and protocol. Role and primary functions of witness and legal counsels.
Prerequisites: None.
AJS290BU
Family Violence
1 credit(s) 1 period(s) lecture
Family violence issues as they relate to the criminal justice response. Prerequisites: None.

## AJS290BV

Victim Assistance
1 credit(s) 1 period(s) lecture
An overview of victim issues emphasizing strategies used to reduce the trauma associated with crime.
Includes description of counseling methods, referral procedures, intervention techniques, and community resources. Prerequisites: None.

## ALT - Academic Literacy

ALT100
Academic Literacy Through Integrated Reading and Writing 4 credit(s) 4 period(s) lecture
Develops academic language skills and critical reading skills for organizing, analyzing, and retaining material through complementary reading and writing assignments. Prepares students for college level reading and writing intensive courses as well as career-related reading and writing tasks. Prerequisites: An appropriate District placement.

## $\underline{\text { ARC - Architecture }}$

## ARC121

## Introduction to Architectural Drafting: Manual 3 credit(s) 6 period(s) lecture and lab

Emphasis on basic techniques and principles of manual architectural drafting. Includes hand lettering, line work, dimensioning, multi-view projection, work in plan, section, and elevation views, design standards, wall details, office procedures, and portfolio development. Prerequisites: None.

## $\underline{\text { ARH - Art Humanities }}$

## ARH100

Introduction to Art
3 credit(s) 3 period(s) lecture
Understanding and enjoyment of art and visual culture through study of two- dimensional and three-dimensional works of art, design elements, media and processes, and cultural contexts.
Emphasis on contemporary topics and cultural diversity in the arts. Prerequisites: None.

ARH101 ART 1101 suñ<br>Art from Prehistory Through Middle Ages<br>3 credit(s) 3 period(s) lecture<br>History of art from the Paleolithic period through the Middle Ages. Prerequisites: None.

ARH102 ART 1102 sunc<br>Art from Renaissance to Modernism<br>3 credit(s) 3 period(s) lecture<br>History of art from the Renaissance through Modernism. Prerequisites: None.

## ARH109

History of American Art 3 credit(s) 3 period(s) lecture
Development and variety of American art. Presentation of architecture, sculpture, painting and decorative objects. Prerequisites: None.

## ARH112

## History of Modern Art

3 credit(s) 3 period(s) lecture
Development of and significant aspects of modern art since the mid-nineteenth century. Emphasis on modern art's relationship to socio-political and aesthetic developments, new media and the rise of mass culture Prerequisites: None.

## ARH115

History of Photography
3 credit(s) 3 period(s) lecture
Survey of history of photography from beginning to present. Emphasizes the reciprocal relationship between the medium's development and reception, society, and other visual arts. Technical developments, photographic practices, and sociocultural themes are studied. Prerequisites: None.

## ARH118

## Introduction to Chinese Art

3 credit(s) 3 period(s) lecture + lab
Explores Chinese philosophy, symbolism, history and religions that underlie the choice of subject matter and life forms in Chinese art. Uses Chinese bamboo brush, ink and rice paper to study Chinese calligraphy and traditional subjects for painting. Prerequisites: None.

## ARH145

History of American Indian Art

## 3 credit(s) 3 period(s) lecture

Survey of American Indian Art from precontact to present. Reviews the impact of these art forms on contemporary American society, other world societies and on the visual arts. Explores characteristics, cultural influences and concerns represented in various art forms past and present. Features field trips to galleries and collections. Prerequisites: None.

ARH201
Art of Asia
3 credit(s) 3 period(s) lecture
Introduction to the origins and historic development of art in Asia, with emphasis on China, Japan, and India. Prerequisites: None.

## ARH203

## Art of Ancient Egypt

3 credit(s) 3 period(s) lecture
The art and culture of ancient Egypt from prehistoric through the Greco-Roman period. Prerequisites: None.

## ARH204 <br> Roman Art and Architecture <br> 3 credit(s) 3 period(s) lecture

Detailed examination of the art and architecture of ancient Rome from the monarchical period to the late empire, with emphasis on the visual culture and artifacts of the civilization. Prerequisites: None.

## ARH216

Pre-Columbian Art History
3 credit(s) 3 period(s) lecture
Art of the Americas prior to European contact, focusing on Mesoamerica and the Central Andean region and their respective adjoining areas, with some attention to the U.S. Southwest and Eastern
Woodlands Mound Building cultures. Prerequisites: None.
ARH217

## Mexican Art History

3 credit(s) 3 period(s) lecture
Art of Mexico and related cultures, from the prehistoric to the contemporary period. Prerequisites: None.

## ART - Art

## ART106

## Gallery Operations

3 credit(s) 6 period(s) lecture + lab
Operation of an art gallery. Includes organization, publicity, evaluation of artwork, selection and installation of exhibits. Prerequisites: Permission of Instructor. Course Notes: ART106 may be repeated for a total of six (6) credit hours.

## ART110

## Experimental Chinese Painting

1 credit(s) 2 period(s) lecture + lab
Explores ancient Chinese techniques with rice paper and Chinese ink to create traditional and nontraditional designs. Emphasis on use of Chinese techniques in mixed media works. Prerequisites: None. Course Notes: ART110 may be repeated for credit.

## ART111 ART 1111 sunim

Drawing I
3 credit(s) 6 period(s) lecture + lab
Fundamental principles of drawing. Emphasis on composition and facility in objective and expressive representation, using variety of drawing media. Prerequisites: None.

## ART112 ART 1112 sunim

Two-Dimensional Design
3 credit(s) 6 period(s) lecture + lab
Study of fundamental elements and principles of two-dimensional design. Prerequisites: None.

## ART113

## Color

3 credit(s) 6 period(s) lecture + lab
Investigation seeking visual solutions to a variety of problems concerning color in two and three dimensions and modes of color appearances, including light and effects in design and theory of design. Prerequisites: None.

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ART115 ART 1115 summ
Three-Dimensional Design
3 credit(s) }6\mathrm{ period(s) lecture + lab
Fundamental principles of three-dimensional design. Prerequisites: None.
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## ART116

## Life Drawing I

3 credit(s) 6 period(s) lecture + lab
Use of form, structure and anatomy of draped and undraped human figure to develop basic principles of sound draftsmanship. Prerequisites: None.

## ART117

Life Drawing II
3 credit(s) 6 period(s) lecture + lab
Further study of form, structure, and anatomy of the draped and undraped human figure with
emphasis on composition. Prerequisites: A grade of C or better in ART116.

## ART122

Drawing and Composition II
3 credit(s) 6 period(s) lecture + lab
Emphasis on composition and exploration of drawing media. Prerequisites: A grade of C or better in ART111.


#### Abstract

ART131 Photography I 3 credit(s) 6 period(s) lecture + lab Basic photographic principles and techniques. Basic camera functions and controls. Experience in the image-making process by creating and editing photographs for various display environments. Introduction to the photographic aesthetic and photography's role in society. Prerequisites: None. Course Note: Camera required.


ART132
Photography II
3 credit(s) 6 period(s) lecture + lab
Advanced camera and darkroom techniques. Aesthetic awareness with personal expression.
Prerequisites: A grade of C or better in ART131, or permission of Instructor


#### Abstract

ART133 Photography III 3 credit(s) 6 period(s) lecture + lab Refinement of aesthetic and technical aspects producing convincing images of highest quality. Prerequisites: A grade of C or better in ART132 or permission of Instructor.


## ART134 <br> Photography IV 3 credit(s) 6 period(s) lecture + lab

Emphasis on personal statement and style. Related graphic art forms explored. Development of portfolio. Prerequisites: A grade of C or better in ART133 or permission of Instructor

## ART137 <br> Alternative Photographic Processes

3 credit(s) 6 period(s) lecture + lab
This course focuses on the 19th-century photographic processes including new picture-making technologies. Discussing the history of photography in relation with techniques taught in class. Students encouraged to explore historical processes in combination with contemporary technologies. Through technical demonstrations, hands-on workshops, and technical assignments, students develop a working knowledge of a range of processes while developing their own visual language. Prerequisites: None.

## ART150

## Digital Storytelling

3 credit(s) 6 period(s) lecture + lab
Enables students to find and develop their personal stories. Emphasis on the use of digital technology to create, edit, produce and archive a digital story. Prerequisites: None.

## ART151

Sculpture I
3 credit(s) 6 period(s) lecture + lab
Exploration of sculptural form and expression in clay, plaster, stone, wood and metal. Prerequisites: None.

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ART152
Sculpture II
3 credit(s) 6 period(s) lecture + lab
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Continuation of ART151 with emphasis on control of sculptural media. Prerequisites: A grade of C or better in ART151.

## ART155

## Glass Fusing and Slumping I

3 credit(s) 6 period(s) lecture + lab
Introduction to the basics involved in glass fusing and slumping. The concepts of glass, glass fusing, and glass slumping will be covered with hands-on experience using a variety of techniques to create finished glass projects such as jewelry, dishes, frames, and door bells. Prerequisites: None.
Course Notes: ART155 may be repeated for a total of twelve (12) credits.

## ART156

Glass Fusing and Slumping II
3 credit(s) 6 period(s) lecture + lab
Further study in the area of glass fusing and slumping. Advanced techniques including Pate-de-Verre, Pattern Bars, watchbands, bracelets, and patterned dishes. Prerequisites: A grade of C or better in ART155. Course Notes: ART156 may be repeated for a total of twelve (12) credits.

## ART161

## Ceramics I

3 credit(s) 6 period(s) lecture + lab
Introduction to ceramic materials and techniques of hand construction, decorating, glazing and throwing on potters' wheel. Prerequisites: None.

## ART162

Ceramics II
3 credit(s) 6 period(s) lecture + lab
Major emphasis on wheel throwing, glaze making and decorating techniques. Prerequisites: A grade of C or better in ART161.

## ART165

## Watercolor Painting I

3 credit(s) 6 period(s) lecture + lab
Transparent and Gouache watercolor painting. Prerequisites: A grade of C or better in (ART111 and ART112) or permission of Instructor.

## ART166

## Watercolor Painting II

## 3 credit(s) 6 period(s) lecture + lab

Painting in water soluble media. Emphasis on individual techniques and design. Prerequisites: A
grade of C or better in ART165.

## ART167

## Painting I

3 credit(s) 6 period(s) lecture + lab
Exploration of technical and expressive possibilities of various media in painting. Prerequisites: A grade of C or better in (ART111 and ART112) or permission of Instructor.

## ART168

Painting II
3 credit(s) 6 period(s) lecture + lab
Continued refinement of painting skills and investigation of new possibilities in painting. Prerequisites: A grade of C or better in ART167 or permission of Instructor.

## ART171

Jewelry I
3 credit(s) 6 period(s) lecture + lab
Fundamentals of jewelry making. Covers hand formed methods, including cutting, shaping, forging, soldering, and lost wax technique. Prerequisites: None.

## ART172

Jewelry II
3 credit(s) 6 period(s) lecture + lab
Further refinement of personal expression using techniques and design concepts of ART171.
Prerequisites: A grade of C or better in ART171.

## ART234

## Color Photography

3 credit(s) 6 period(s) lecture + lab
Basic principles of color theory, camera and input and output techniques using analog or digital photography. Prerequisites: A grade of C or better in ART131, or AVC142, or permission of Instructor. Course Note: Film or digital camera required.

## ART250 <br> Introduction to Printmaking 3 credit(s) 6 period(s) lecture + lab

Introduction to concepts and techniques involved in Fine Art field of Printmaking. Deals with three most basic Printmaking modes of Serigraphy, Woodcut, and Monoprinting in first part of course. Overview of Etching, Lithography and Papermaking in second part of course.
Prerequisites: A grade of C or better in ART111 and ART113.


#### Abstract

ART255 Art Marketing 3 credit(s) 3 period(s) lecture Career goals, presentation of artist and art work (portfolio, resume, business cards, catalog), pricing and selling works, networking, establishing a studio, promotion and publicity, writing press releases, proposal writing, business ethics, artist rights, copyright law, contracts and agreements, royalties, record keeping, and communication skills. Prerequisites: None.


ART255AA<br>Self-Promotion<br>1 credit(s) 1 period(s) lecture

Career goals, presentation of artist, communication skills, keeping files and records, developing selfpromotional materials. Prerequisites: None.

ART255AB
The Portfolio
1 credit(s) 1 period(s) lecture
Choosing the right pieces to include, presenting art work, developing the portfolio. Prerequisites: None.

## ART256

## Glass Fusing and Slumping III

3 credit(s) 6 period(s) lecture + lab
Further study in the area of glass fusing and slumping with emphasis on advanced techniques and design considerations, such as, plates designed using different techniques, weaving or strip glass, and combining previous techniques to create projects. Prerequisites: A grade of C or better in ART156. Course Notes: ART256 may be repeated for a total of fifteen (15) credits.

## ART257

## Glass Fusing and Slumping IV

3 credit(s) 6 period(s) lecture + lab
Further study of advanced glass fusing and slumping including problems, professional practices, personal expression and experimental research into various techniques. Prerequisites: A grade of C or better in ART256. Course Notes: ART257 may be repeated for a total of fifteen (15) credits.

ART275
Lost Wax Casting I
3 credit(s) 6 period(s) lecture + lab
Introduction to lost wax casting techniques for jewelry and small sculptures. Emphasis on design concepts as related to three- dimensional forms. Prerequisites: None.

## ART276

## Lost Wax Casting II

3 credit(s) 6 period(s) lecture + lab
Advanced course in lost wax casting techniques for jewelry and small sculptures. Emphasis on the continuation of individual expression using the lost wax method. Prerequisites: A grade of C or better in ART275.

## ART/ADA283

## Digital Graphic Arts II

3 credit(s) 6 period(s) lecture + lab
Advanced skill development of graphic design through use of microcomputer. Emphasis on computer design and techniques for producing all types of camera-ready advertising art for printed matter and package design. Includes illustration, typography, photo imaging, and color separation. Prerequisites: A grade of C or better in ADA/ART183 or permission of Instructor.

## Studio Art

3 credit(s) 6 period(s) lecture + lab
Studio course for art majors allowing continuation in a subject field. Prerequisites: Permission of Instructor. Course Note: ART290AC may be repeated for credit.

ART295DA, DB, and DC
Art Workshop/Seminar: Photography
1,2 , and 3 credit(s) 2, 4, and 6 period(s) lecture + lab
Advanced level workshop seminar in art disciplines. Prerequisites: Minimum of three (3) credits introductory and three (3) credits intermediate level courses in specific field or permission of Department/Division Chair

## AVC - Art and Visual Communication

AVC100
Introduction to Digital Arts
1 credit(s) 2 period(s) lecture + lab
Foundation course in digital arts and design, with emphasis in the production of art using the computer.
Prerequisites: None.

## AVC119

## Penciling for Sequential Art

3 credit(s) 6 period(s) lecture + lab
Development of observational skills as they apply to sequential art. Emphasis on techniques that showcase how characters interact with their environment and manipulate props and cartooning anatomy. Includes techniques on composing page layouts, adapting scripts and reference gathering. Prerequisites: None. ART111, or ART116, or previous drawing experience strongly recommended.

AVC120

## Inking for Sequential Art

3 credit(s) 6 period(s) lecture + lab
Development of inking materials and techniques used in sequential art. Emphasis on the types of tools used in the industry and the various means of employing them. Understanding the duties of the inker and the process of computer finishing. Prerequisites: None.

## AVC135

## Foundations of Photojournalism

3 credit(s) 6 period(s) lecture + lab
Basic technical knowledge of photographic process as applied by mass media. Prerequisites: A grade of C or better in ART131 or permission of Instructor.

## AVC138

Commercial Photography I
3 credit(s) 6 period(s) lecture + lab
Basic techniques of lighting, camera work, and reproduction of commercial photography. Cooperation with commercial art community. Prerequisites: A grade of C or better in ART131, or AVC142, or permission of Instructor.

AVC139
Commercial Photography II
3 credit(s) 6 period(s) lecture + lab
Continuation of AVC138. Advanced techniques with portfolio organization and presentation.
Prerequisites: A grade of C or better in AVC138.
AVC140

## Portrait Photography

3 credit(s) 6 period(s) lecture + lab
Fundamentals of portrait photography. Basic techniques of lighting, posing, design, and digital workflows applicable to the industry. Theory and practices of a portrait photography business.
Prerequisites: A grade of C or better in ART131 or AVC142 or permission of Instructor. Course Notes: Digital camera with manual settings required.

## AVC142 <br> Introduction to Digital Photography <br> 3 credit(s) 6 period(s) lecture + lab

Fundamentals of digital photography. Includes camera operations, exposure techniques, introduction to digital output, and theory of digital photography. Prerequisites: None. Course Notes: Digital camera required.

## AVC143

## Intermediate Digital Photography

3 credit(s) 6 period(s) lecture + lab
Intermediate theory and techniques of digital photography. Aesthetic awareness and personal expression from image capture through intermediate techniques in the digital darkroom. Introduction to highresolution digital output. Prerequisites: A grade of C or better in AVC142 or permission of Instructor.
Course Note: Semi-adjustable, high-resolution digital camera is required.
AVC169

## 2D Media Design

3 credit(s) 6 period(s) lecture + lab
Generation of two-dimensional (2D) images, designs, and media using digital and traditional methods of visual problem solving. Understanding digital and design-based techniques and workflows. Requisites: A grade of C or better required in all Prerequisites. Prerequisites or Corequisites: AVC100 or permission of Instructor.

AVC170
3D Computer Design
3 credit(s) 6 period(s) lecture + lab
Artistic manipulation of computer images. Emphasis on color and three-dimensional (3D) design in production of these images. Existing software used to generate three- dimensional art. Prerequisites: A grade of C or better in AVC100 or AVC169 or permission of Instructor.

## AVC173

## Computer Art

3 credit(s) 6 period(s) lecture + lab
Introduction to the multiple elements of paint software programs using the microcomputer. Basic foundation in the use of computer techniques including color paint programs for the production of computer images. Use of electronic input and output devices. Prerequisites: A grade of C or better in AVC100, or permission of Instructor.

## AVC175

## Electronic Publishing Design I

3 credit(s) 6 period(s) lecture + lab
Introduction to the multiple elements of commercial publishing using the microcomputer. Basic
foundation in the use of electronic page layout techniques. Emphasis on publication design layout and concepts. Prerequisites or Corequisites: A grade of C or better in AVC100 or permission of Instructor.

AVC177

## Digital Photographic Imaging I

3 credit(s) 6 period(s) lecture + lab

Introduction to multiple elements of digital imaging. Basic foundation in photographic manipulation of images, with special attention to aesthetic foundations underlying photographic composition.
Requisites: A grade of C or better required in all Prerequisites. Prerequisites or Corequisites: AVC100 or permission of Instructor.

## AVC179

## Electronic Presentation Design

3 credit(s) 6 period(s) lecture + lab
Introduction to the multiple elements of commercial-graphic presentation materials using the microcomputer and other advanced technologies. Basic foundation in the use of computer presentation software programs using presentation techniques. Special attention to aesthetic foundations underlying all presentation materials. Prerequisites or Corequisites: A grade of C or better in AVC100 or permission of Instructor.

## AVC180 <br> Designer's Tools Modules 1 credit(s) 2 period(s) lecture + lab

Introduction to the multiple elements of a selected visual art software package using the microcomputer. Basic foundation in the use of electronic techniques including appropriate input and output production devices. Prerequisites: A grade of C or better in AVC100, or permission of Instructor.

AVC180AC
Designer's Tools: QuarkExpress
AVC180AD
Designer's Tools: Adobe Illustrator

## AVC180AI <br> Designer's Tools: 3-D Studio Textures

## AVC180AJ <br> Designer's Tools: 3-D Special Effects

AVC180AK
Designer's Tools: Adobe Premiere
AVC180AL
Designer Tools: Character Studio
AVC181
Graphic Design I
3 credit(s) 6 period(s) lecture + lab
Basic understanding of design principles and the stages of graphic design, with an emphasis on final product and presentation. Prerequisites: A grade of C or better in AVC100 or permission of Instructor.

AVC182

## Graphic Design II

3 credit(s) 6 period(s) lecture + lab

Utilizing graphic design essentials of typography, contrast and layout to develop design solutions to problems in consumer advertising, typography and structure. Prerequisites: A grade of C or better in AVC181 or permission of Instructor.

AVC183
Digital Graphic Arts I
3 credit(s) 6 period(s) lecture + lab
Graphic design use in microcomputer; black and white graphics, standard and color brushes, lines, shapes, area fills and fonts. Application to illustration, advertising graphics, typography and video interaction. Requisites: A grade of C or better required in all Prerequisites. Prerequisites or Corequisites: AVC100 or permission of Instructor.

## AVC/MMT184

Digital Animation I
3 credit(s) 6 period(s) lecture + lab
The art of animation (animated sequences, special effects, titles, etc.) using the computer Construction characters, background graphics, color, scaling, storyboard, cells, timing, editing, and surface rendering. Screening and discussion of selected animated short films and videos. Prerequisites: A grade of C or better in (ART111 or ART116) or permission of Instructor. Corequisites: AVC100 or permission of Instructor.

## AVC/MMT185

3D Modeling and Animation I
3 credit(s) 6 period(s) lecture + lab
Basic concepts of 3D modeling. Anatomy of computer geometry; basic elements that make computer models-curves, surfaces, non-uniform rational basis spline (NURBS), and polygons. 3D translation, shading, materials, and rendering. Requisites: A grade of C or better required in all Prerequisites.
Prerequisites or Corequisites: AVC100 or permission of Instructor.

## AVC/MMT190

## Art of Web Site Design

3 credit(s) 6 period(s) lecture + lab
Introduction to design production for websites. Layout, typography and presentation style for HTML (Hyper Text Markup Language). Design of mock-ups using digital design software to produce artistic form and content for the Web using Hyper Text Markup Language (HTML), digital text, and graphics. Discussion of color, proportion, typography and Web- specific design principles. Emphasizes design of cross-browser compatible interfaces that optimize usability, accessibility and browser interoperability. Prerequisites: A grade of C or better in AVC100, or permission of Instructor. CIS133DA recommended.

## AVC190AA

## Art of Website Design I

1 credit(s) 2 period(s) lecture + lab
Introduction to design production for websites. Layout, typography and presentation style for HTML (Hyper Text Markup Language). Design of mock-ups using digital design software to produce artistic form and content for the Web using Hyper Text Markup Language, digital text, and graphics. Prerequisites: A grade of C or better in AVC100, or permission of Instructor. CIS133DA recommended.

## AVC190AB

## Art of Website Design II

1 credit(s) 2 period(s) lecture + lab
Producing Web site pages, using design and Hyper Text digital text and graphics. Discussion of color, proportion, typography and Web-specific design principles. Prerequisites: A grade of C or better in AVC100 and AVC190AA, or permission of Instructor. CIS133DA recommended.

## AVC190AC

## Art of Website Design III

1 credit(s) 2 period(s) lecture + lab
Producing Web sites using artistic form and content. Emphasizes design of cross- browser compatible interfaces that optimize usability, accessibility and browser interoperability. Prerequisites: A grade of C or better in AVC100 and AVC190AB, or permission of Instructor. CIS133DA recommended.

AVC191
Storyboarding and Layout
2 credit(s) 4 period(s) lecture + lab
Introduction to storyboarding including film storytelling and scene presentation. Prerequisites: A grade of C or better in ART111 or AVC187.

AVC192

## Advanced Web Presentation Design

3 credit(s) 6 period(s) lecture + lab
Advanced interactive application and training for Web designers and graphic artists using Quark, Illustrator, Photoshop, HTML Flash, Dreamweaver and Digital Video site optimization techniques. Development of design concepts for web pages that communicate and deliver Web content creatively. Prerequisites: A grade of C or better in AVC/MMT190 or permission of Instructor. AVC180AM and AVC180AN suggested but not required.

## AVC210

## Design Tools for Imagery, Production, and Publishing

3 credit(s) 6 period(s) lecture + lab
Industry standard development of image manipulation, digital production, digital negatives, typography, and desktop publishing. New techniques using integrated software with multiple platform applications. Emphasis on alternative processes including: technique, aesthetics and creative imagery.
Prerequisites: A grade of C or better in AVC100 and [AVC169 or (ADA/AVC180AD, ADA/AVC180AE, and AVC180AS)] and AVC181, or permission of Instructor.

## AVC215

## Advanced Electronic Publishing

3 credit(s) 6 period(s) lecture + lab
Advanced use of electronic page layout techniques including in-depth styles; typography; technical documents and digital publishing interactivity. Prerequisites: A grade of C or better in AVC175.

AVC219
Coloring, Toning and Lettering for Sequential Art
3 credit(s) 6 period(s) lecture + lab

Understanding of the digital rules and programs used in coloring, toning and lettering comics, and the problems presented therein within the sequential narrative. Emphasis on rules and guidelines within the industry, and digital coloring and lettering. Prerequisites: A grade of C or better in (AVC100 and AVC119) or permission of Instructor. AVC120 recommended.


#### Abstract

AVC220 Publishing for the Comic Industry 3 credit(s) 6 period(s) lecture + lab Understanding of the comics industry. Includes researching, marketing, packaging, and distributing comics. Emphasis on selling and submitting to comic publishers, how to develop comics for selfpublishing, promotional materials, and understanding contracts and copyrights involved in the process of publishing comics. Prerequisites: A grade of C or better in AVC100 or permission of Instructor.


## AVC221

## Comics Creation

3 credit(s) 3 period(s) lecture + lab Development of a complete sequential comic, using all comics skills from beginning to end. Process includes scripting, penciling, inking, coloring or toning, lettering, and printing for publication. Prerequisites: A grade of C or better in (AVC100 and AVC219) or permission of Instructor.

## AVC237

## Fashion Photography

3 credit(s) 6 period(s) lecture + lab
Practical application of photographic techniques within the fashion industry. Includes the photographing of models, garments, and accessories. Prerequisites: A grade of C or better in (ART131 or AVC142) or permission of Instructor. Course Notes: Digital Single Lens Reflex (DSLR) camera required. AVC237 may be repeated for credit.

## AVC/THO246

## Digital Fabrication

3 credit(s) 6 period(s) lecture + lab
Introduction to concepts and application of computer visualization, modeling, and rapid prototyping for interdisciplinary arts. Students will design sculptures applying 3D computer modeling techniques, rapid prototyping, and other available digital output devices to produce solid models.
Prerequisites: None.
AVC270
Digital Photographic Imaging II
3 credit(s) 6 period(s) lecture + lab
Intermediate digital photographic imaging techniques. Refinement of aesthetic awareness and personal expression. Requisites: A grade of C or better required in all Prerequisites. Prerequisites or Corequisites: AVC177.

AVC273AC
Special Topics: Multimedia Arts
3 credit(s) 6 period(s) lecture + lab
Multimedia art studio course examining new and/or current topics in media and/or multimedia arts.
Prerequisites: Permission of Instructor. Course Note: AVC273AC is designed to offer special
topics and/or specialized training for students in multimedia arts. Activities may also be appropriate for portfolio enhancement.

## AVC/MMT285

3D Modeling and Animation II
3 credit(s) 6 period(s) lecture + lab
Advanced techniques for 3D modeling and computer animation. Creating and applying 2D background and 3D model textures, creating and applying special effects to models and animation, designing, modeling, and animating a digital 3D character from a character study. Prerequisites: A grade of C or better in AVC/MMT185.

## AVC289

## Computer Illustration <br> 3 credit(s) 6 period(s) lecture + lab

Introduction to the multiple elements of commercial illustration using the microcomputer. Basic foundation in the use of computer techniques including color paint and draw programs for the production of commercial illustrations for publications and printed matter. Use of input and output devices. Prerequisites or Corequisites: A grade of C or better in AVC100 or permission of Instructor.

## AVC291

## Digital Prepress

3 credit(s) 6 period(s) lecture + lab
Introduction to fundamental concepts of digital prepress necessary for the designer to create digital documents for accurate output and reproduction. Prerequisites: A grade of C or better in AVC100 or permission of Instructor.

AVC297AB

## Commercial Art Internship

2 credit(s) 2 period(s) lecture + lab
Digital design, development, and photographic imaging work experience in a business or industry. 160 hours of designated work. Prerequisites: Permission of Department or Division.

AVC298AA-AC

## Special Projects

$\mathbf{1 - 3}$ credit(s) $\mathbf{1 - 3}$ period(s) lab
Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance.
Professional-type facilities and equipment are made available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development.
Prerequisites: None.

## ASB, ASM - Anthropology

ASB102
Introduction to Cultural Anthropology
3 credit(s) 3 period(s) lecture
Principles of cultural anthropology, with illustrative materials from a variety of cultures. The nature of culture; social, political, and economic systems; religion, aesthetics and language. Prerequisites: None.

## ASB/AFR/CCS202

## Ethnic Relations in the United States

3 credit(s) 3 period(s) lecture
Basic concepts and processes, including historic overview, of interethnic relations in the United States: culture, race, ethnicity, ethnocentrism, prejudice, discrimination, racism, assimilation, acculturation, and individual and group responses to interethnic contact. Cultural knowledge and intercultural communication skills and perspectives as fundamental tools for successful management of social relations in a multicultural world. Prerequisites: None.

ASB211

## Women in Other Cultures

3 credit(s) 3 period(s) lecture
Cross-cultural analysis of the economic, social, political, and religious factors that affect women's status in traditional and modern societies. Prerequisites: None.

ASB214

## Magic, Witchcraft and Healing: An Introduction to Comparative Religion

 3 credit(s) 3 period(s) lectureOrigins, elements, and forms of religion; a comparative survey of religious beliefs, myths, rituals and symbolism including magic, witchcraft and healing as practiced in selected regions of the world; the place of religion in the total culture. Prerequisites: None.

## ASB222

## Buried Cities and Lost Tribes: Old World

3 credit(s) 3 period(s) lecture Introduction to archaeology through discoveries and the researchers who made them. Emphasis on methods of archaeological fieldwork and what these discoveries reveal about humanity, including the nature of archaeological inquiry, the development of human social groups, the changing role of religion in evolving societies, the origins of agriculture, the origins of settled lifeways, the rise of cities and complex societies, political strife across different cultures and the forces which tend to fragment societies. Examples drawn from Africa, Asia, Europe, the Pacific Islands, and Australia. Prerequisites: None.

ASB223

## Buried Cities and Lost Tribes: New World

3 credit(s) 3 period(s) lecture
Introduction to archaeology through discoveries and the researchers who made them. Emphasis on methods of archaeological fieldwork and what these discoveries reveal about humanity, including the nature of archaeological inquiry, the development of human social groups, the changing role of religion in evolving societies, the origins of agriculture, the origins of settled lifeways, the rise of cities and complex societies, political strife across different cultures and the forces which fragment societies. Examples drawn from North American, Central America, and South America. Prerequisites:

None.
ASB235
Southwest Archaeology
3 credit(s) 3 period(s) lecture
Anthropological perspective and comparative study of the cultures of prehistoric native peoples of the North American southwest. Prerequisites: None.

ASB245<br>Indians of the Southwest<br>3 credit(s) 3 period(s) lecture<br>Comparative study of the cultures, including the histories and present status, of Indians of the Southwest. Prerequisites: None.

## ASM104

Bones, Stones, and Human Evolution
4 credit(s) 5 period(s) lecture + lab
Study of human evolution and variation; including fossil hominids and their tools, primate anatomy and behavior, human genetics, and the environment and human biology. Prerequisites: None.

## ASM/FOR275

## Forensic Anthropology

4 credit(s) 5 period(s) lecture + lab
Survey of the role of forensic anthropologists, from the crime scene to the courtroom. Course focuses on how skeletal analysis can aid in medicolegal investigations, especially by identifying aspects of the life history of unknown individuals and by reconstructing events that took place at crime scenes. Covers both the legal aspects of forensic practice and the underlying biological basis for evidence obtained from skeletal remains. Examines applications of forensic anthropology in mass disasters, human rights investigations, and the deciphering of historic cases. Lab activities designed to illustrate techniques and principles central to the discipline. Prerequisites: None.

## ASL - American Sign Language

Also see Interpreter Preparation, IPP.
ASL090AA
Speedy American Sign Language I
1 credit(s) 1 period(s) lecture
Introduction of techniques for communicating with deaf people using American Sign Language (A.S.L.). Expressive and receptive sign skills, manual alphabet, numbers, and basic sign vocabulary.
Prerequisites: None. ASL103 suggested but not required. Course Notes: ASL090AA may be repeated for a total of five (5) credit hours.

## ASL090AB

Speedy American Sign Language II
1 credit(s) 1 period(s) lecture
Use American Sign Language (A.S.L.) to converse about feelings, family members, other people, clothing, events according to proper tense, and to count to one hundred. Prerequisites: A grade of C or better in ASL090AA. Completion of prerequisites within the last three years is required. Course Notes: ASL090AB may be repeated for a total of five (5) credit hours.

## ASL101

American Sign Language I
4 credit(s) 4 period(s) lecture
Introduction of principles, methods, and techniques for communicating with deaf people who sign. Development of expressive and receptive sign skills, manual alphabet, numbers, and sign vocabulary. Overview of syntax, grammar, and culture related to American Sign Language (A.S.L.). Prerequisites: None. ASL103 suggested as a corequisite but not required.

ASL102

## American Sign Language II

4 credit(s) 4 period(s) lecture
Continued development of knowledge and language skills for communicating with deaf people who sign. Includes numbers, fingerspelling, and culture. Emphasis on enhancement of receptive sign skills and continued development of expressive sign skills. Application of rudimentary, syntactical, and grammatical structure stressed with continued development of sign vocabulary. Prerequisites: A grade of C or better in ASL101 or permission of Department or Division. Completion of prerequisites within the last three years is required.

ASL103
Introduction to the Deaf Community

## 1 credit(s) 1 period(s) lecture

History and development of American Sign Language (ASL) and English codes. Overview of education for Deaf and Hard of Hearing children. Legal rights and common adaptive devices used by Deaf and Hard of Hearing individuals. Prerequisites: None.

## ASL110

## Fingerspelling

3 credit(s) 3 period(s) lecture
Introduction to fingerspelling techniques. Focus on methods, theory, and applications on receptive and expressive skills including manual alphabet production and numbers. In addition, skill development
in speed, dexterity, clarity, and lexicalized fingerspelling, numeric incorporation, prefixes, suffixes, and polysyllabic words. Prerequisites: A grade of C or better in ASL101 or permission of Department or Division. Completion of prerequisites within the last three years is required.

## ASL200

Issues and Resources
3 credit(s) 3 period(s) lecture
Implications of laws pertaining to educational choices and rights of deaf, deaf-blind, and hard of hearing individuals. Local, state, and national organizations, activities, and agencies affecting the deaf community. Prerequisites: A grade of C or better in ASL102 or permission of Department or Division. Completion of prerequisites within the last three years is required.

ASL201<br>American Sign Language III<br>4 credit(s) 4 period(s) lecture

Linguistics of American Sign Language (A.S.L.) including non-manual behaviors and signing English idioms with conceptual accuracy. Emphasis on practical application of A.S.L. skills, expanded vocabulary, and cross-cultural communication. Prerequisites: A grade of C or better in ASL102 or permission of Department or Division. (ENG101 or ENG107) and (CRE101 or equivalent as indicated by assessment) suggested but not required. Completion of prerequisites within the last three years is required.

## ASL202

American Sign Language IV
4 credit(s) 4 period(s) lecture
Advanced American Sign Language skills including continued vocabulary. Emphasis on conversational techniques in a cross-cultural framework. Continued work on conceptual accurate signing of English idioms and words with multiple meanings. Prerequisites: A grade of C or better in ASL201 or permission of Department or Division. (ENG101 or ENG107), ASL200, and (CRE101 or equivalent as indicated by assessment) suggested but not required. Completion of prerequisites within the last three years is required.

## ASL203

American Sign Language $V$ 4 credit(s) 4 period(s) lecture
Advanced study of vocabulary, classifiers, use of space, and grammatical features of American Sign Language (ASL). Includes evaluation of changes that occur in ASL as a living language. Advanced use of ASL in demonstrations, reports, and presentations. Prerequisites: A grade of C or better in ASL202. Completion of prerequisites within the last three years is required.

## ASL204

Comparative Linguistics: ASL/English 3 credit(s) 3 period(s) lecture
A variety of topics about linguistics of American Sign Language (ASL) and English including phonology, morphology, lexicon, syntax, discourse, and language acquisition. Aspects of using sign language and how visual languages differ and are similar to spoken language. Prerequisites: A grade of C or better in ASL202. Corequisites: ASL203. Completion of prerequisites within the last three years is required.

ASL212
Deaf Culture 3 credit(s) 3 period(s) lecture
Linguistic, social, educational, and political issues in deaf culture. Values and group identity issues as related to heritage and literature. Special emphasis on the cultural and philosophical attitudes shared with other minority groups. Prerequisites: A grade of C or better in ASL202 or permission of Department or Division. Completion of prerequisites within the last three years is required.

## AST-Astronomy

## AST101

## Survey of Astronomy

4 credit(s) 6 period(s) lecture and lab
Survey of astronomy for the non-technical student. The history, contents, and evolution of the solar system and the universe in general. Astronomical principles and instrumentation. The planets, moons, sun, comets, stars and star formation, galaxies, and cosmology Prerequisites: None.

## AST102

Survey of Astronomy Laboratory 1 credit(s) 3 period(s) lab
Astronomical observations and exercises designed to familiarize students with the sky, telescopes, and methods used in astronomy. Prerequisites: A grade of C or better in AST101 and permission of Instructor or Department or Division. Course Notes: AST102 is a legacy course intended for those students who have previously completed the corresponding lecture course. Current MCCCD students should enroll in AST101 only.

## AST/GLG106

## Life in the Universe <br> 4 credit(s) 6 period(s) lecture and lab

Introduction to the search for life in the universe for the non-science major Earth's location in space and time, nature of life, light and the spectrum, origin and history of the universe, origin of life on Earth and the possibility of life on other planets. Prerequisites: A grade of C or better in MAT090, MAT091, or MAT092, or completion of higher-level mathematics course, or satisfactory placement.

## AST/GLG107

## Life in the Universe Laboratory

1 credit(s) 3 period(s) lab
Astronomy, Biology, and Planetary Science laboratory. Prerequisites: A grade of C or better in AST/GLG106 and permission of Instructor or Department or Division. Course Notes: AST107 is a legacy course intended for those students who have previously completed the corresponding lecture course. Current MCCCD students should enroll in AST106 only.

## AST111

## Introduction to Solar System Astronomy 4 credit(s) 6 period(s) lecture and lab

Introduction to astronomy for the non- science major. The scientific method, properties of light, astronomical instruments, our Solar System and solar systems around other stars. Includes hands-on astronomical observations and laboratory exercises. Prerequisites: A grade of C or better in MAT092 or higher, or satisfactory district placement.

AST112
Introduction to Stars, Galaxies, and Cosmology 4 credit(s) 6 period(s) lecture and lab
Introduction to astronomy for the non- science major. Structure and evolution of stars; supernovae, black holes, and quasars; nebulae; star clusters; galaxies; cosmology, including the birth and death of the universe. Prerequisites: A grade of C or better in MAT092 or higher, or satisfactory district
placement. Course Notes: Note that AST111 is not a prerequisite for this course.

## AST113

Introduction to Solar System Astronomy Laboratory 1 credit(s) 3 period(s) lab
Hands-on astronomical observations and exercises to supplement AST111. Prerequisites: A grade of C or better in AST111 and permission of Instructor or Department or Division. Course Notes: AST113 is a legacy course intended for those students who have previously completed the corresponding lecture course. Current MCCCD students should enroll in AST111 only.

AST114
Introduction to Stars, Galaxies, and Cosmology Laboratory 1 credit(s) 3 period(s) lab
Hands-on astronomical observations and exercises to supplement AST112. Prerequisites: A grade of C or better in AST112 and permission of Instructor or Department or Division. Course Notes: AST114 is a legacy course intended for those students who have previously completed the corresponding lecture course. Current MCCCD students should enroll in AST112 only.

## BIO - Biology

## BIO100

## Biology Concepts

4 credit(s) 6 period(s) lecture and lab
Introductory course covering basic principles and concepts of biology. Methods of scientific inquiry and behavior of matter and energy in biological systems are explored. Prerequisites: None. Course Notes: Field trips may be required at students' expense.

## BIO105

## Environmental Biology

4 credit(s) 6 period(s) lecture and lab
Fundamentals of ecology and their relevance to human impact on natural ecosystems. Field trips may be required at students' expense. Prerequisites: None.

## BIO108

Plants and Society
4 credit(s) 6 period(s) lecture and lab
A global study of plants in relation to humans; as a source of food, fiber, drugs, and other products; for aesthetic value, survival, and energy. Prerequisites: None.

## BIO145

## Marine Biology

4 credit(s) 6 period(s) lecture and lab
A survey of marine environments and their biotic communities with emphasis on the natural history of marine organisms. Prerequisites: None.

## BIO156

Introductory Biology for Allied Health

## 4 credit(s) 6 period(s) lecture and lab

An introductory biology course for allied health majors with an emphasis on humans. Topics include fundamental concepts of cell biology, histology, microbiology, and genetic. Prerequisites: A grade of C or better in RDG100, or RDG100LL, or higher, or eligibility for CRE101. One year of high school or one semester of college level chemistry is strongly recommended.

## BIO160

## Introduction to Human Anatomy and Physiology <br> 4 credit(s) 6 period(s) lecture and lab

Principles of scientific method. Structural organization, homeostasis and control mechanisms of the body. Specific chemistry concepts. Structure and function of the major systems of the body.
Prerequisites: None.

## BIO181 BIO 1181 sund

## General Biology (Majors) I

4 credit(s) 6 period(s) lecture and lab
The study and principles of structure and function of organisms at the molecular and cellular levels. A detailed explanation of the chemistry of life, the cell, and genetics. Prerequisites: A grade of C or better in RDG100, or RDG100LL, or higher, or eligibility for CRE101. One year of high school or one semester of college-level biology and chemistry is strongly recommended.

## BIO182 BIO 1182 SUN:

## General Biology (Majors) II

4 credit(s) 6 period(s) lecture and lab
The study and principles of structure and function of living things at cellular, organismic, and higher levels of organization. A detailed exploration of the mechanisms of evolution, biological diversity, biology of organisms, and ecology. Prerequisites: A grade of C or better in BIO181, or BIO181XT, or permission of Department or Division.

## BIO201 BIO 2201 젤

Human Anatomy and Physiology I
4 credit(s) 6 period(s) lecture and lab
Study of structure and function of the human body. Topics include cells, tissues, integumentary system, skeletal system, muscular system, and nervous system. Prerequisites: A grade of C or better in (BIO156, or BIO156XT, or BIO181, or BIO181XT, or one year of high school biology) and (RDG100, or RDG100LL, or higher, or eligibility for CRE101). CHM130 or higher or one year of high school chemistry suggested but not required.

## BIO202 BIO 2202 sunm

Human Anatomy and Physiology II
4 credit(s) 6 period(s) lecture and lab
Continuation of structure and function of the human body. Topics include endocrine, circulatory, lymphatic, respiratory, digestive, urinary, and reproductive systems; and fluid and electrolyte balance. Prerequisites: A grade of C or better in BIO201 or BIO201XT.

## BIO205 BIO 2205 suñ

## Microbiology

4 credit(s) 6 period(s) lecture and lab
Study of microorganisms and their relationship to health, ecology, and related fields. Prerequisites: A grade of C or better in (BIO156, or BIO156XT, or BIO181, or BIO181XT, or one year of high school biology) and (RDG100, or RDG100LL, or higher, or eligibility for CRE101). CHM130 or higher or one year of high school chemistry suggested but not required.

## BIO296WA, WB, WC <br> Cooperative Education

$\mathbf{1 - 3}$ credit(s) 5-15 period(s) lab
Work-college experiences that involve the combined efforts of educators and employers to accomplish an outcome related to the career objectives of the students. Prerequisites: Completion of at least twelve (12) college credits minimum 2.6 grade point average and be able to obtain a position related to student's academic or career goals (students present job may qualify) or permission of Instructor. Corequisites: Must be concurrent in at least one class which is related to student's major or career interest or with permission of the Instructor.

## BIO298AA, AB, AC

## Special Projects

$\mathbf{1 - 3}$ credit(s) $\mathbf{1 - 3}$ period(s) lab
Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance. Professional-type facilities and equipment are made available for student use. Allows the best aspects of
independent study and individualized learning to be combined to maximize student development. Prerequisites: None.

## BPC - Business-Personal Computers

## BPC101

## Introduction to Computers

3 credit(s) 4 period(s) lecture + lab
Computer software applications for the personal computer, including electronic spreadsheet and word processing, keyboarding review, a desktop environment, database management, computer graphics and operating system commands. Individualized advanced applications of software selected to solve specific problems on the personal computer. Prerequisites: None.

## BPC110

## Computer Usage and Applications

## 3 credit(s) 4 period(s) lecture + lab

Introduction to business and personal computer operations and usage Software applications for analyzing and solving business problems including word processing, spreadsheet, database, and presentation graphics. Prerequisites: None.

## BPC/OAS111AA

## Computer Keyboarding I

1 credit(s) 1.7 period(s) lecture + lab
Mastery of essential microcomputer keyboarding skills. Emphasis on touch typing of alphabetic and numeric keys and symbols. Prerequisites: None.

## BPC170

A+ Exam Prep: Computer Hardware Configuration and Support
3 credit(s) 4 period(s) lecture + lab Explore technical aspects of personal computers, including system components, installation, system configuration, peripheral devices, and notebooks. Emphasis placed on hardware installation, maintenance, mobile devices, and hardware troubleshooting. Helps prepare students for the CompTIA A+ examinations. Prerequisites: None.

## BPC171

## Recycling Used Computer Technology

1 credit(s) 2 period(s) lecture + lab
Use of hardware maintenance knowledge and skills to refurbish used computers. Prerequisites or Corequisites: BPC170 or permission of Instructor Course Notes: BPC171 may be repeated for a total of three (3) credit hours.

## BPC270

A+ Exam Prep: Operating System Configuration and Support

## 3 credit(s) 4 period(s) lecture + lab

Explore advanced technical aspects of maintaining and servicing computers. Emphasis placed on OS installation, maintenance, mobile devices, security, software troubleshooting, and on proper usage of tools, safety procedures, and professionalism. Helps prepare students for the CompTIA A+ examinations. Prerequisites: A grade of C or better in CIS105 or permission of Instructor.

## CAD - Computer-Aided Drafting

CAD100
Fundamentals of 2D AutoCAD
3 credit(s) 6 period(s) lecture + lab
Utilize AutoCAD software to generate two- dimensional (2-D) drawings and components in a generic installation. Apply basic AutoCAD commands and properties to format, draw, edit, layer, dimension, import/ export, and manage drawing files. Creation, manipulation, and hardcopy production of 2-D drawing files from major AutoCAD command and display environments and plot option.
Prerequisites: None.

## CCS - Chicana and Chicano Studies

## CCS101 <br> Chicana and Chicano Studies <br> 3 credit(s) 3 period(s) lecture

Introduction to the wealth and diversity of Chicana and Chicano Studies research from a variety of disciplinary perspectives through the use of a series of historical and social scientific studies, novels, testimonios, and films. Prerequisites: A grade of C or better in ENG101, or ENG107, or equivalent.

## CCS/ASB/AFR202

## Ethnic Relations in the United States

3 credit(s) 3 period(s) lecture
Basic concepts and processes, including historic overview, of interethnic relations in the United States: culture, race, ethnicity, ethnocentrism, prejudice, discrimination, racism, assimilation, acculturation, and individual and group responses to interethnic contact. Cultural knowledge and intercultural communication skills and perspectives as fundamental tools for successful management of social relations in a multicultural world. Prerequisites: None.

## CCS282AA

Volunteerism for Chicana and Chicano Studies: A Service-Learning Experience 1 credit(s) 1 period(s) lab
Service-learning field experience within private/public agencies such as museums and libraries, and citizen volunteer groups. May be repeated for a total of six (6) CCS282 credit hours; may not repeat specific assignment for more than three (3) credit hours. Standard grading available according to procedures outlined in catalog. Prerequisites: Permission of Instructor.

## CCS298AA-AC <br> Special Projects <br> $\mathbf{1 - 3}$ credit(s) 1-3 period(s) lab

Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance. Professional-type facilities and equipment available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development.
Prerequisites: None.

## CFS - Child/Family Studies

## CFS101AH

Art Activities for the Young Child
1 credit(s) 1 period(s) lecture (Not offered every semester)
The creative use of art media and techniques at appropriate developmental levels. Prerequisites: None.

## CFS101AP

Science Activities for the Young Child
1 credit(s) 1 period(s) lecture (Not offered every semester)
Interpreting the study of science in early childhood education as a part of a dynamic growth process offered by the child's daily life experiences. Prerequisites: None.

## CFS106

## Stress Management in the Family

1 credit(s) 1 period(s) lecture (Not offered every semester)
Impact of stress factors on the family. Managing time and stress in the home. Options for coping with anxiety. Prerequisites: None.

CFS109
Parent/Child Communication
1 credit(s) 1 period(s) lecture (Not offered every semester)
Communication between parents and children. Developing self- esteem, responsibility and empathic listening. Pitfalls to communication. Prerequisites: None.

## CFS114

Working With the Hyperactive Child
1 credit(s) 1 period(s) lecture (Not offered every semester)
Causes of hyperactivity in children; focus on the family's role in identification, treatment and school/community support. Prerequisites: None.

## CFS116

## Discipline and Guidance

3 credit(s) 3 period(s) lecture (Not offered every semester)
Age-appropriate principles for disciplining and guiding young children's behavior in child care settings, including interpersonal and environmental strategies. Observational opportunities provided.
Prerequisites: None.
CFS121AA

## Single Parent Family-Adjustment

1 credit(s) 1 period(s) lecture (Not offered every semester)
Overview of issues facing single parent families. Examination of adjustment issues with emphasis on relationships. Methods of adapting family life to meet the needs and variations of one-parent families.
Prerequisites: None.

## CFS125

Safety in Early Childhood Settings
1 credit(s) 1 period(s) lecture (Not offered every semester)
Fundamental concepts of promoting a safe, but challenging learning environments. Establishing and
maintaining safety procedures in the early childhood setting. Emphasis on indoor and outdoor equipment and activities, risk analysis, accident, evacuation, and emergency plans, regulations, regulatory agencies and resources, current topics, and innovative practices. Prerequisites: None.

## CFS130 <br> Demystifying Adolescence <br> 1 credit(s) 1 period(s) lecture (Not offered every semester)

A holistic overview of the physical, social, and emotional development of adolescents. Emphasis on effective skills necessary for working with adolescents and their families. Prerequisites: None.

CFS157<br>Marriage and Family Life<br>3 credit(s) 3 period(s) lecture<br>Study of marriage and the family as a social system, including models of family analysis, intra- and interpersonal relations, and cross- cultural and historical patterns. Prerequisites: None.

## CFS/ECH176

Child Development
3 credit(s) 3 period(s) lecture
Study of the science of human development from conception through adolescence. Includes observation skills, parent and adult roles in the lives of children, and contemporary issues. Prerequisites: None.

## CFS177

## Parent-Child Interaction

3 credit(s) 3 period(s) lecture (Not offered every semester)
Positive methods to strengthen relationships and resolve conflicts with children. Focus on effective interpersonal skills and guidance techniques. Prerequisites: None.

## CFS178

## Survey of Early Childhood Education

 3 credit(s) 3 period(s) lecture (Not offered every semester)Orientation to basic concepts of day care and nursery programs. History and philosophy of child care services including state regulations governing those services. Observation opportunities provided.
Prerequisites: None.

## CFS182

## Parenting the Early Adolescent: Ages Ten to Fourteen

1 credit(s) 1 period(s) lecture (Not offered every semester)
Emphasis on the early adolescent developmental period, ages ten to fourteen, and the importance of the parent-child relationship, as well as strategies to ensure successful teen years. Prerequisites: None.

## CFS183

## Contemporary Issues in Adolescence

3 credit(s) $\mathbf{3}$ period(s) lecture (Not offered every semester)
Current issues that impact adolescent development and behavior explored. Comprehensive and specific strategies for addressing these issues as parents or professionals working with teens emphasized. Issues related to adolescent sexuality, abuse, mental health, violence, and risk behaviors included.
Prerequisites: None.

## CFS205

## Human Development

3 credit(s) $\mathbf{3}$ period(s) lecture (Not offered every semester)
Explores the growth and development process over the human life span. Research and theoretical approaches; physical, cognitive, social, and personality development from birth through adulthood and death. Prerequisites: None.

## CFS242

## Curriculum Planning for Diversity

3 credit(s) $\mathbf{3}$ period(s) lecture (Not offered every semester)
Practical early childhood classroom applications for a diverse population, including integration of cultures, generations, genders, and races into the classroom, facilitation of second language acquisition, and practical teaching strategies which are also developmentally appropriate. Prerequisites: A grade of C or better in CFS/ECH176.

CFS256
Management in the Family
3 credit(s) 3 period(s) lecture (Not offered every semester)
Management as a means to the realization of individual and family values and goals; creation, allocation, and use of resources. Focus on decision making. Prerequisites: None.

## CFS257

Working with Families with Diverse Needs
3 credit(s) 3 period(s) lecture (Not offered every semester)
A collaborative approach to working with families with diverse needs. Examines the effect of specific challenges on the family system. Presents techniques for those working with families to facilitate stress management, conflict resolution, and utilization of community and personal resources to aid in the strengthening of the family unit. Prerequisites: None.

CFS263
Child and Family Studies Seminar
1 credit(s) 1 period(s) lecture
Classroom portion of Child and Family Studies Internship. Emphasizes the blend of job-related activities including career exploration, employment procedures, human relations, and on-the-job problems.
Prerequisites: Departmental approval. Corequisites: CFS264AA or CFS264AB or CFS264AC, initial enrollment in internship module.

CFS264AA

## Child and Family Studies Internship

1 credit(s) 5 period(s) lab
Laboratory portion of Child and Family Studies Internship. Five hours of work weekly. Supervision and evaluation by a coordinator. May be repeated for a total of six (6) credits. Prerequisites: Departmental approval. Corequisites: CFS263, when initially enrolled in CFS264AA or CFS264AB or CFS264AC module.

CFS264AB
Child and Family Studies Internship
2 credit(s) 10 period(s) lab
Laboratory portion of Child and Family Studies Internship. Ten hours of work weekly. Supervision and
evaluation by a coordinator. May be repeated for a total of six (6) credits. Prerequisites: Departmental approval. Corequisites: CFS263, when initially enrolled in CFS264AA or CFS264AB or CFS264AC module.

CFS264AC
Child and Family Studies Internship 3 credit(s) 15 period(s) lab
Laboratory portion of Child and Family Studies Internship. Fifteen hours of work weekly. Supervision and evaluation by a coordinator. May be repeated for a total of six (6) credits. Prerequisites: Departmental approval. Corequisites: CFS263, when initially enrolled in CFS264AA or CFS264AB or CFS264AC module.

## CFS/ECH271

## Arranging the Environment

1 credit(s) 1 period(s) lecture (Not offered every semester)
Exploration of the influence of the environment on the behavior of young children. Indoor and outdoor spaces considered and analysis of environments practiced. Prerequisites: None.

## CFS/ECH275

## Literacy Development and the Young Child

1 credit(s) 1 period(s) lecture (Not offered every semester)
Literacy from birth through the early childhood years. Focus on developmentally appropriate ways to encourage speaking, listening, writing, and reading in the home and classroom. Prerequisites: None.

## CFS277

## Adult-Adolescent Interaction

3 credit(s) $\mathbf{3}$ period(s) lecture (Not offered every semester)
Prepares social service workers, teachers, and parents to interact effectively with teenagers. Develops understanding of the interaction between adolescents and their families. Teaches practical strategies to deal with specific problem areas. Prerequisites: None.

## CFS281

## Adolescent School Success

1 credit(s) 1 period(s) lecture (Not offered every semester)
An overview of factors that contribute to adolescent school success, including family- school interactions, special needs adolescents, and problem areas. Emphasis on strategies and resources to facilitate school success. Prerequisites: None.

## CFS283

## Multicultural Early Child Education

1 credit(s) 1 period(s) lecture (Not offered every semester)
Practical early childhood classroom applications for a diverse ethnic population, including integration of multiculturalism into the classroom, facilitation of a second language acquisition, and practical teaching strategies which are also developmentally appropriate. Prerequisites: A grade of C or better in CFS/ECH176.

## CFS/ECH287

Professional Development in Early Childhood Education
1 credit(s) 1 period(s) lecture (Not offered every semester)

Emerging professionalism within the field of early childhood education. Consideration of job responsibilities, rewards, ethics and current issues facing practitioners. Includes assessment and career planning. Prerequisites: None.

CFS290AA
Child Abuse: Identification and Reporting in Child Care Settings 1 credit(s) 1 period(s) lecture
(Not offered every semester)
Identification, recording, and reporting by child care providers of sexual abuse, physical abuse, or neglect of young children. Prerequisites: None.

## CHM - Chemistry

## CHM100

## Preparation for Fundamental Chemistry

1 credit(s) 1 period(s) lecture
A preparatory course designed to review fundamental math and chemistry principles for students inexperienced or insecure with these concepts. Stresses individualized instruction. Designed to prepare students for CHM130. Prerequisites: None.

## CHM107 and 107LL

Chemistry and Society and Lab
4 credit(s) 6 period(s) lecture and lab
LEC: A survey of chemistry and its impact on the environment. Completion of CHM107LL is required to meet the Natural Science requirement. Prerequisites: None. LAB: Laboratory experience in support of CHM107. Prerequisites or Corequisites: CHM107.

CHM130 and 130LL CHM 1130 बUNE

## Fundamental Chemistry and Lab

4 credit(s) 6 period(s) lecture and lab
LEC: A survey of the fundamentals of general chemistry. Emphasis on essential concepts and problem-solving techniques. Basic principles of measurement, chemical bonding, structure and reactions, nomenclature, and the chemistry of acids and bases. Preparation for students taking more advanced courses in chemistry. Designed to meet needs of students in such diverse areas as agriculture, nursing, home economics, physical education and water technology. Prerequisites: A grade of C or better in [(CHM090, or MAT090, or MAT091, or MAT092, or higher-level mathematics course, or satisfactory math placement) and (RDG100, or RDG100LL, or higher, or eligibility for CRE101 as indicated by appropriate reading placement)], or permission of the Instructor, or Department or Division Chair. Course Notes: Students may receive credit for only one of the following: CHM130 and CHM130LL, or CHM130AA. LAB: Laboratory experience in support of CHM130. Prerequisites or Corequisites: A grade of C or better in CHM130. Course Notes: Students may receive credit for only one of the following: CHM130 and CHM130LL, or CHM130AA.

## CHM130AA

## Fundamental Chemistry with Lab

4 credit(s) 6 period(s) lecture and lab
A survey of the fundamentals of general chemistry. Emphasis on essential concepts and problem-solving techniques. Basic principles of measurement, chemical bonding, structure and reactions, nomenclature, and the chemistry of acids and bases. Preparation for students taking more advanced courses in chemistry. Designed to meet needs of students in such diverse areas as agriculture, nursing, home economics, physical education and water technology. Prerequisites: A grade of C or better in [(CHM100, or MAT090, or MAT091, or MAT092, or higher-level mathematics course, or satisfactory math placement) and (RDG100, or RDG100LL, or higher, or eligibility for CRE101 as indicated by appropriate reading placement)], or permission of the Instructor, or Department or Division Chair. Course Notes: Student may receive credit for only one of the following: CHM130 and CHM130LL, or CHM130AA.

CHM138 and 138LL
Chemistry For Allied Health and Lab
4 credit(s) 6 period(s) lecture and lab

LEC: Elements of fundamental and organic chemistry. Includes the general chemical behavior of inorganic matter and the structure of organic and biochemical systems. This course is designed for specific allied health programs at MCCCD. It may not be applicable to other allied health programs or transferable. Prerequisites: A grade of C or better in (CHM100 or MAT090 or MAT091 or MAT092 or higher or satisfactory math placement), or one year of high school chemistry taken within the last five years with a grade of C or better, or permission of the Instructor, or Department or Division Chair. LAB: Laboratory experience in support of CHM138, Chemistry for Allied Health. Prerequisites: None. Corequisites: CHM138.

## CHM150

## General Chemistry I

4 credit(s) 4 period(s) lecture
Detailed study of principles of chemistry for science majors and students in pre- professional curricula. Prerequisites: A grade of C or better in [(CHM130 and CHM130LL), or CHM130AA, or one year of high school chemistry taken within the last five years] and (a grade of C or better in MAT151 or higher level mathematics course, or satisfactory placement), or permission of the Instructor, or Department or Division Chair. Course Notes: Completion of all prerequisites within the last two years is recommended. Student may receive credit for only one of the following: CHM150 and CHM151LL, or CHM151 and CHM151LL, or CHM150AA, or CHM151AA.

## CHM151 and 151LL CHM 1151 बUN®

## General Chemistry I and Lab

## 4 credit(s) 6 period(s) lecture and lab

LEC: Detailed study of principles of chemistry for science majors and students in pre-professional curricula. Prerequisites: A grade of C or better in [(CHM130 and CHM130LL), or CHM130AA, or one year of high school chemistry taken within the last five years] and (a grade of C or better in MAT151 or higher-level mathematics course, or satisfactory placement), or permission of the Instructor, or Department or Division Chair. Course Notes: Completion of all prerequisites within the last two years is recommended. Students may receive credit for only one of the following: CHM150 and CHM151LL, or CHM151 and CHM151LL, or CHM150AA, or CHM151AA. LAB: Laboratory experience in support of CHM150 or CHM151. Prerequisites: A grade of C or better in CHM150 or CHM151 or Corequisites: CHM150 or CHM151. Course Notes: Student may receive credit for only one of the following: CHM150 and CHM151LL, or CHM151 and CHM151LL, or CHM150AA, or CHM151AA.

## CHM152 and 152LL CHM 1152 suni

## General Chemistry II and Lab

4 credit(s) 6 period(s) lecture and lab
LEC: A study of the chemical properties of the major groups of elements, equilibrium theory, thermodynamics, electrochemistry, and other selected topics. Prerequisites: A grade of C or better in [(CHM150 or CHM151) and CHM151LL], or CHM150AA, or CHM151AA, or permission of the Instructor, or Department or Division Chair. Course Notes: Completion of prerequisites within the last two years recommended. Completion of CHM152LL required to meet the Natural Science requirement. Student may receive credit for only one of the following: CHM152 and CHM152LL, or CHM152AA. LAB: Laboratory experience in support of CHM152. Prerequisites: A grade of C or better in CHM152 or Corequisites: CHM152. Course Notes: Student may receive credit for only one of the following: CHM152 and CHM152LL, or CHM152AA.

## CHM230 and 230LL CHM 2230 sunsi

Fundamental Organic Chemistry and Lab
4 credit(s) 6 period(s) lecture and lab
LEC: Chemistry of representative groups of organic compounds, emphasizing biological applications.
Prerequisites: A grade of C or better in (CHM130 and CHM130LL) or (CHM150 or CHM151 and CHM151LL), or permission of the Instructor, or Department or Division Chair. Course Notes:
Completion of prerequisites within the last two years recommended. CHM230 course content is designed to meet the needs of students in such areas as agriculture, home economics, nursing, pre-physician assistant, and physical education among others. LAB: Laboratory experience in support of CHM230. Prerequisites: A grade of C or better in CHM130LL or CHM151LL or equivalent or Corequisites: CHM230. Course Notes: Students may receive credit for only one of the following: CHM230 and CHM230LL, or CHM230AA.

## CHM235 and 235LL CHM 2235 sunis

General Organic Chemistry I and Lab
4 credit(s) 7 period(s) lecture and lab 5
LEC: Rigorous introduction to chemistry of carbon-containing compounds. Reaction mechanisms and recent methods of synthesis emphasized. Prerequisites: A grade of C or better in (CHM152 and CHM152LL), or CHM152AA, or permission of the Instructor, or Department or Division Chair. Course Notes: Completion of prerequisites within the last two years recommended. LAB: Laboratory experience in support of CHM235. Prerequisites: A grade of C or better in CHM235 or Corequisite: CHM235. Completion of prerequisites within the last two years recommended.

## CHM236 and 236LL CHM 2236 sunis

General Organic Chemistry IIA and Lab
4 credit(s) 7 period(s) lecture and lab
LEC: Study of chemistry of carbon- containing compounds continued. Structural determination and additional reaction mechanisms and modern methods of synthesis emphasized.
Prerequisites: A grade of C or better in CHM235 and CHM235LL or CHM235AA, or permission of the Instructor, or Department or Division Chair. Course Notes: Students may receive credit for only one of the following: CHM236 and CHM236LL, or CHM236AA. Completion of prerequisites within the last two years recommended. LAB: Laboratory experience in support of CHM236. Prerequisites: A grade of C or better in CHM236 or Corequisite: CHM236. Completion of prerequisites within the last two years recommended.

CHM298AA-AC
Special Projects

## $\mathbf{1 - 3}$ credit(s) 1-3 period(s) lab

Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance. Professional-type facilities and equipment are made available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development.
Prerequisites: None.

## CIS - Computer Information Systems

## CIS102DA

Customer User Support
3 credit(s) 4 period(s) lecture + lab
Examines skills, tools and strategies necessary for becoming a computer help- desk or end-user support professional. Prerequisites: None.

## CIS103

## Introduction to Social Media

## 3 credit(s) 4 period(s) lecture + lab

Identify and explain social media and Web 2.0 technologies for personal, academic, professional, and business applications. Create and maintain accounts on various sites to socialize, write, and share multimedia, while understanding the related ethics, privacy and security issues. Prerequisites: The student must be 13 years or older.

## CIS105 CIS 1120 बunve

## Survey of Computer Information Systems

3 credit(s) 4 period(s) lecture + lab
Overview of computer technology, concepts, terminology, and the role of computers in business and society. Discussion of social and ethical issues related to computers. Use of word processing, spreadsheet, database, and presentation software. Includes uses of application software and the Internet for efficient and effective problem solving. Exploration of relevant emerging technologies.
Prerequisites: None.

## CIS111

## Ethics in Information Technology

3 credit(s) $\mathbf{3}$ period(s) lecture
Ethical issues that arise as a result of increasing use of computers, and the responsibilities of those who work with computers, either as computer science professionals or end users. Critical inquiry and review of ethical challenges in information technology business, including professional and corporate responsibility, government regulation, fiduciary responsibilities of information, infringement of intellectual property, security risk assessment, Internet crime, identity theft, employee surveillance, privacy, compliance, social networking, and the ethics of IT corporations. Prerequisites: None.

## CIS113DE

Microsoft Word: Word Processing
3 credit(s) 4 period(s) lecture
Using word processing software to create, name and manage files, edit text, format, apply themes and styles, create and modify tables, apply desktop publishing features, and print a variety of types of documents. Prerequisites: None.

## CIS114AE

## Excel: Level I

1 credit(s) 2 period(s) lecture + lab
Computer spreadsheet skills for solving business problems using Excel, including calculations, forecasting and projections. Prerequisites: None.

## CIS114DE

## Excel Spreadsheet

3 credit(s) 4 period(s) lecture + lab
Computer spreadsheet skills for solving business problems using Excel, including calculations, forecasting, projections, macro programming, database searching, extraction, linking, statistics, and matrix manipulation. Production of graphs and reports. Project design using multiple, integrated spreadsheets. Prerequisites: None. Course Notes: CIS114DE may be repeated for a total of nine (9) credit hours.

## CIS117DM

Microsoft Access: Database Management
3 credit(s) 4 period(s) lecture + lab
Introduction to Microsoft Access. Emphasis on features, design, and database management.
Prerequisites: None. Course Notes: CIS117DM combines the contents of CIS117AM, CIS117BM and CIS117CM. CIS117DM may be repeated for a total of nine (9) credit hours.

## CIS118AB

## PowerPoint: Level I

1 credit(s) 2 period(s) lecture + lab
Use of Powerpoint software to produce professional-quality presentation visuals. Prerequisites: None.

## CIS119DO

Introduction to Oracle: SQL
3 credit(s) 4 period(s) lecture+ lab
Use of Oracle tools and methodologies to fulfill real-world business information requirements. Hands-on exercises for designing, creating, and maintaining database structures to store, retrieve, update, and display data in a relational database using the SQL programming language. Creating and maintaining database objects. Advanced retrieval techniques. Requisites: A grade of C or better required in all Prerequisites. Prerequisites or Corequisites: CIS105 or permission of Instructor.

## CIS120DC

Introduction to Adobe Animate
3 credit(s) 4 period(s) lecture + lab
Focuses on entry-level skill expectations for digital animation using Adobe Animate. Covers basic animation techniques used in the creation, manipulation, and editing of animation graphics. Prepares students for the Adobe certifications related to Adobe Animate. Prerequisites: None.

## CIS120DF

## Introduction to Adobe Photoshop

3 credit(s) 4 period(s) lecture + lab
Focuses on entry-level skills and knowledge for digital imaging using Adobe Photoshop. Prepares students for the Adobe Certifications related to Photoshop. Prerequisites: None.

## CIS121AE

Windows Operating System: Level I
1 credit(s) 2 period(s) lecture + lab
Specific topics include Windows basics, navigating and customizing the desktop, maintaining hardware and software, improving performance, configurations, securing your computer, taskbar, organizing,
searching and managing folders and files, installing and uninstalling applications, Internet Explorer fine tuning, security, and searching, including advanced search techniques, keyboard shortcuts, and current topics. Prerequisites: None.

## CIS121AI

Mac Operating System
1 credit(s) 2 period(s) lecture + lab
Specific topics include getting started with Mac OS; working with disks, folders, and files; installing and using applications; setting system preferences; printing, faxing, and scanning; getting and living online; using iLife; sharing a Mac with other users; creating a home network; and maintaining the Mac. Prerequisites: None.

CIS126DL

## Linux Operating System

## 3 credit(s) 4 period(s) lecture + lab

Introduction to the Linux Operating system. Develop knowledge and skills required to install, configure and troubleshoot a Linux- based workstation including basic network functions. Learn basic command line and Graphical User Interface (GUI) desktop environment utilities and applications. Fundamental abilities to achieve the entry-level industry certification covered.
Prerequisites: None.

## CIS126RH

## Red Hat System Administration I

3 credit(s) 4 period(s) lecture + lab
Introduction to core administration skills needed to manage a Red Hat Enterprise Linux system. This Red Hat Academy course helps prepare for the Red Hat certification exams using a hands-on, task-focused curriculum. Prerequisites: None.

## CIS133AA

Internet/Web Development Level I-A
1 credit(s) 2 period(s) lecture + lab
Overview of the Internet and its resources. Hands-on experience with various Internet communication tools. Prerequisites: None.

## CIS133DA

## Internet/Web Development Level I

3 credit(s) 4 period(s) lecture + lab
Overview of the Internet/ World Wide Web (WWW) and its resources. Hands-on experience with various Internet/ WWW resource discovery, information retrieval, and social media tools. Design and development of multi-page websites using current HTML (Hyper Text Markup Language) and CSS (Cascading Style Sheets) standards. Prerequisites: None.

## CIS136

Content Management Systems: WordPress
3 credit(s) 4 period(s) lecture + lab
Overview of WordPress Content Management System. Includes hands-on design and creation of web pages and blogs for the World Wide Web. Designed to cover best practices for web site/blog creation. Prerequisites: None.

CIS150
Programming Fundamentals
3 credit(s) 4 period(s) lecture + lab
Structured program design and logic tools. Use of computer problems to demonstrate and teach concepts using appropriate programming language. Requisites: A grade of C or better required in all Prerequisites. Prerequisites or Corequisites: CIS105 or permission of Instructor.

CIS150AB
Object-Oriented Programming Fundamentals
3 credit(s) 4 period(s) lecture + lab
Structured and Object-Oriented design and logic tools. Use of computer problems to demonstrate and teach concepts using an appropriate programming language. Requisites: A grade of C or better required in all Prerequisites. Prerequisites or Corequisites: CIS105 or permission of Instructor.

## CIS156

## Python Programming: Level I

3 credit(s) 4 period(s) lecture + lab
Introduction to Python programming. Includes general concepts, program design, development, data types, operators, expressions, flow control, functions, classes, input and output operations, debugging, structured programming, and object-oriented programming. Prerequisites: A grade of C or better in CIS105 or permission of Instructor.

## CIS159

Visual Basic Programming I
3 credit(s) 4 period(s) lecture + lab
Use of the Visual Basic programming language to solve problems using suitable examples from business or other disciplines. Prerequisites: A grade of C or better in CIS105, or permission of Instructor.

## CIS162AD

C\#: Level I
3 credit(s) 4 period(s) lecture + lab
Introduction to $\mathrm{C} \#$ programming including general concepts, program design, development, data types, operators, expressions, flow control, functions, classes, input and output operations, debugging, structured programming, and object-oriented programming. Prerequisites: A grade of C or better in CIS105 or permission of Instructor.

CIS163AA
Java Programming: Level I
3 credit(s) 4 period(s) lecture + lab
Introduction to Java programming. Includes features needed to construct Java Applets, Java
Applications, control structures, methods, arrays, character and string manipulation, graphics, and object-oriented programming. Prerequisites: A grade of C or better in CIS105 or permission of Instructor.

## CIS165

## Introduction to iOS Application Development

3 credit(s) 4 period(s) lecture + lab
Introduction to iOS device programming utilizing the XCode application, and the programming languages Objective-C and/or Swift, utilizing various iOS frameworks. Understand iOS hardware
and feature basics. Go through the entire design process from concept to final product delivery. Prerequisites: A grade of C or better in CIS150++, or CIS156, or CIS159, or CIS162++, or CIS163AA, or permission of Instructor.

## CIS166AA

Introduction to JavaScript
3 credit(s) 4 period(s) lecture + lab
Introduction to basic JavaScript programming concepts including syntax. Covers Hypertext Markup Language (HTML), programming logic and debugging, as well as forms manipulation and animation. Prerequisites: A grade of C or better in CIS133DA, or permission of Instructor.

## CIS166AE

## Web Scripting with PHP: Hypertext Preprocessor (PHP)

3 credit(s) 4 period(s) lecture + lab
Introduction to web scripting with PHP (PHP: Hypertext Preprocessor). Web application development using Hypertext Markup Language (HTML), PHP, programming logic, and Structured Query Language (SQL). Prerequisites: A grade of C or better in CIS133DA, or permission of Instructor.

## CIS190

## Introduction to Networking <br> 3 credit(s) 4 period(s) lecture + lab

Overview of networks. Emphasis on the elements of a network, current issues and products, and use of a network. Includes terminology, hardware and software components, connectivity, resource monitoring and sharing, electronic mail and messaging, and security issues. Helps prepare students for the CompTIA Network+ examination. Prerequisites: None. Corequisites: CIS105 or permission of Instructor

## CIS224

## Project Management Microsoft Project for Windows

3 credit(s) 4 period(s) lecture + lab
Introduction to project management concepts while working with MS Project to solve complex project management networks, including creating Gantt and PERT charts, tracking project progress, planning for restrictions, and integrating MS Project with other software packages such as Excel, Word, Powerpoint, and cc Mail. Prerequisites: None.

CIS227
Assembly Language
3 credit(s) 4 period(s) lecture + lab
Concepts and use of the Assembly programming language, including basic arithmetic operations, flow control, and memory management. Prerequisites: A grade of C or better in CIS162++ or permission of Instructor.

## CIS233DA

## Internet/Web Development Level II

3 credit(s) 4 period(s) lecture + lab
Plan, design and create web sites using HTML and Advanced Cascading Style Sheets (CSS). Expedite the development process using CSS frameworks and libraries. Enhance user experience and web site functionality using supporting technologies. Exploration of User Interface (UI) and User Experience
(UX), best practices, accessibility, strategies, and careers in web design and development.
Prerequisites: A grade of C or better in CIS133DA or permission of Instructor.
CIS235
e-Commerce
3 credit(s) 4 period(s) lecture + lab
Introduction to Electronic Commerce on the Internet. Designing an electronic storefront including web page content and development, e-commerce site marketing, advertisement, legal and security considerations, credit card and other debit transaction covered. Also includes current issues in ecommerce. Prerequisites: A grade of C or better in CIS133DA or permission of Instructor.

## CIS238DL

## Linux System Administration

3 credit(s) 4 period(s) lecture + lab
Managing Linux Operating Systems including sophisticated manipulation of file structures, backup systems, printing processes, troubleshooting, user account management, hard disk maintenance and configuration, process monitoring and prioritizing, kernel customization, and system resource control. Preparation for industry certifications such as the CompTIA Linux+, the Red Hat Certified System Administrator (RHCSA), the Red Hat Certified Engineer (RHCE) and the Linux Professional Institute (LPIC-1). Prerequisites: A grade of C or better in CIS126DL or CIS126RH or permission of Instructor.

## CIS239DL

## Linux Shell Scripting

3 credit(s) 4 period(s) lecture + lab
Linux Shell Scripting syntax and methods including the automation of system tasks as well as interpreted user-level programming. Course includes the Linux Borne Again Shell (BASH) as well as a variety of industry competitors. Prerequisites: A grade of C or better in CIS238DL or CIS238RH or permission of Instructor.

## CIS240DL

## Linux Network Administration

3 credit(s) 4 period(s) lecture + lab
In depth networking based on Linux servers and the Transmission Control Protocol/ Internet Protocol (TCP/IP) protocol suite. Integrating Linux servers and workstations into a network environment with multi- platform network operating systems including a variety of open-standard and proprietary protocols. Preparation for industry certifications such as the CompTIA Linux+, the Red Hat Certified System Administrator (RHCSA), the Red Hat Certified Engineer (RHCE) and the Linux Professional Institute (LPIC-1). Prerequisites: A grade of C or better in CIS238DL or permission of Instructor.

## CIS250

## Management of Information Systems

3 credit(s) 4 period(s) lecture + lab
The study of business information systems and its management, communication, e-business strategies, emerging technologies, database concepts, and project management. Overview of systems analysis and design. Learn about the competitive and strategic uses of information systems and how they are transforming organizations and their management. Prerequisites: A grade of C or better in CIS105.

CIS259

## Visual Basic Programming II <br> 3 credit(s) 4 period(s) lecture + lab

Use of the Visual Basic programming language to identify and solve advanced problems using suitable examples from business or other disciplines. Prerequisites: A grade of C or better in CIS159 or permission of Instructor.

## CIS262AD

C\# Level II
3 credit(s) 4 period(s) lecture + lab
Advanced C\# programming with emphasis on data structures, dynamic memory allocation, objectoriented programming, user interfaces, and database processing. Overview of web applications, network programming, and reporting tools. Prerequisites: A grade of C or better in CIS162AD, or permission of Instructor.

## CIS263AA

Java Programming: Level II
3 credit(s) 4 period(s) lecture + lab
Intermediate Java programming. Includes features needed to construct object-oriented programming, multithreading, multimedia, files, streams and data structure. Prerequisites: A grade of C or better in CIS163AA or permission of Instructor.

## CIS265

## Advanced iOS Application Development

3 credit(s) 4 period(s) lecture + lab
Advanced iOS device programming utilizing the Swift/XCode application, and the programming languages Objective-C and/or Swift, utilizing various iOS frameworks. Understand iOS hardware and feature basics. Go through entire design process from concept to final product delivery.
Prerequisites: A grade of C or better in CIS150++ and CIS165, or permission of Instructor.
CIS270

## Essentials of Network and Information Security

3 credit(s) 4 period(s) lecture + lab
Threats to security of information systems; responsibilities and basic tools for information security including communication security, infrastructure security, organizational security and basic cryptography. Introduction to the language of network security and hardware, software and firmware components of an information security system for local, metropolitan, enterprise, and wide area networks. Helps prepare participants for the CompTIA Security+ exam and the GIAC Security Essentials Certificate (GSEC). Prerequisites: A grade of C or better in BPC270 or CIS190 or CNT140AB or MST150++ or permission of Instructor.

## CIS271DL

## Linux Security

## 3 credit(s) 4 period(s) lecture + lab

Implementing in-depth security methods and techniques in a Linux-based network environment. Utilize programs, utilities and configuration techniques to provide user- level, file system, and network security. Gain knowledge in a variety of security cracking techniques and how to guard against them. In all aspects of security, the standard of practicing professional ethics seriously emphasized. Preparation for industry certifications such as the SAIR/ GNU LCP and LCA certificates, CompTIA`s Linux+, RHCT, RHCE, and LPIC. Prerequisites: A grade of C or better in

CIS240DL or Permission of Instructor.

## CIS275DL

## Linux Capstone

3 credit(s) 4 period(s) lecture + lab
The Linux Capstone course aggregates the skills, knowledge, communication, and critical thinking skills from the Linux Program. This course is to emulate a production environment that prepares students to work as a Linux Systems Administrator. The course helps to prepare students for Linux Industry certification exams. Prerequisites: A grade of C or better in CIS240DL, or CIS240RH, or permission of Instructor.

CIS276DA
MySQL Database
3 credit(s) 4 period(s) lecture + lab
A broad overview of the MySQL database. Includes Structured Query Language (SQL) instruction for data definition, data manipulation, and data retrieval. Develops knowledge and skills required to install MySQL, model and create new databases, manage users, authentication, and stored procedures, and develop backup/restore strategies. Prerequisites: A grade of C or better in CIS105, or CIS117DM, or permission of Instructor.

CIS290AA, AB, and AC
Computer Information Systems Internship
1,2 , and 3 credit(s) 6, 12, and 18 period(s) lab
Work experience in business or industry. Prerequisites: Permission of Instructor.

## CIS298AA, AB, and AC

## Special Projects

1,2 , and 3 credit(s) 1, 2 , and 3 period(s) lab
Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance. Professional-type facilities and equipment are made available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development.
Prerequisites: None.

## CIS324 <br> Information Technology Project Management <br> 3 credit(s) 3 period(s) lecture

Covers the general aspects of project management and emphasizes the important special considerations which apply to information technology projects. Covers principles for managing multiple IT projects and project portfolios, including use of waterfall and agile methodologies. Explores best practices for project management in information technology departments. Includes analysis of budgets, risk management, and cost estimation / justification techniques. Prerequisites: A grade of C or better in CIS224.

## CIS350

Advanced Information Technology Management
4 credit(s) 4 period(s) lecture
Course expands upon fundamental concepts and focuses on management of information technology systems in organizations. Explores management processes and procedures for planning, implementation,
and operation of information systems with an emphasis on operational management. Examines real world successes and failures of technology management. Equips students with knowledge of current information technology management and decision support systems. Prerequisites: A grade of C or better in CIS250.

## CIS360

## Data Analysis

4 credit(s) 4 period(s) lecture
Introduces processes of obtaining, preparing, analyzing and presenting visualized data using appropriate software. Provides an understanding of data interpretation and its practical application in a business. Introduces data governance strategies ensuring data quality throughout the complete lifecycle of the data. Covers data analytics and mining techniques within the context of supporting data-driven decision making. Prerequisites: A grade of C or better in CIS156, CIS215, and ((MAT140 or MAT141 or MAT142 or MAT145 or MAT146), or higher-level mathematics course, or appropriate district placement).

## CIS376

## Database Management and Security 4 credit(s) 4 period(s) lecture

Overview of the functional areas, concepts and techniques of database management and security. Topics include business and regulatory requirements, database architecture and design, access control, retrieval concepts, data auditing, incident response and optimal database system performance, security and availability. Explores new directions in database management and security. Prerequisites: A grade of C or better in CIS119DO, or CIS276DA, or CIS276DB.

## CIS390

## Network Management

4 credit(s) 4 period(s) lecture
Course explores principles of network management architecture within the Information Technology (IT) life cycle, including network management principles; network design and optimal performance; network maintenance, common problems and solutions; business practices in network management; and effective stakeholder communication. Students will work individually and in teams to evaluate and design network systems and solutions to address business problems and end user needs. Prerequisites: A grade of C or better in CIS105, and (CNT140AB or CIS190).

## CIS411

## Ethics, Regulations, and Legal Issues in Information Technology

3 credit(s) 3 period(s) lecture
Covers ethical and regulatory issues in information technology (IT) and creates a foundation for analyzing and addressing evolving legal concerns. Provides an overview of laws concerning computer and network security, business policy, and legal boundaries for systems authorization. Examines ethical, legal, and professional ramifications on leadership practices in an organization's technology environment. Prerequisites: A grade of C or better in CIS111 or ITS120.

## CIS470

Enterprise Cyber Security
4 credit(s) 4 period(s) lecture
Provides overview of various concepts and principles in information technology (IT) security and the management of IT security plans to mitigate information security (IS/IT) related security risks. Covers
evaluation of cybersecurity plans and policies and the impact of laws, regulations, and codes of professional behavior with respect to cybersecurity. Includes preparation of responses to cybersecurity incidents and overview of various concepts of IT security. Prerequisites: A grade of C or better in CIS270.

## CIS475

## Emerging Trends in Information Technology

 4 credit(s) 4 period(s) lectureCourse focuses on identification of and research in the emerging trends in Information Technology (IT). Selected topics could be within the areas of Kubernetes, Edge Computing, Ethics in Artificial Intelligence (AI), Blockchain, Automation and AI, Telehealth Solutions, Internet of Things (IoT), Augmented Reality, Hyperautomation, Development Operations (DevOp), 5G, and/or other emerging issues. Course includes discussion of contemporary topics, research in selected areas, and course projects related to student interests. Prerequisites: A grade of C or better in (CIS190 or CNT140AB) and CIS270.

## CLD - Cloud Computing

## CLD110

Amazon Web Services Cloud Foundations
3 credit(s) 4 period(s) lecture + lab
Provides a detailed overview of cloud concepts, Amazon Web Services (AWS) core services, security, architecture, pricing, and support. Intended for students who seek an overall understanding of cloud computing concepts, independent of specific technical roles. Helps to prepare students for the AWS Certified Cloud Practitioner exam. Prerequisites: None. CIS105 suggested but not required.

## CLD120

## Amazon Web Services Cloud Architect Associate

3 credit(s) 4 period(s) lecture + lab
Fundamentals of building IT infrastructure on Amazon Web Services (AWS). Focus on how to optimize use of the AWS Cloud by understanding AWS services and best practices for the AWS Cloud and how they fit into cloud-based solutions. Covers design patterns for architecting optimal IT solutions on AWS, as well as strategies and services implemented on AWS. Prerequisites: A grade of C or better in CLD110 or permission of Instructor.

## CNT - Cisco Network Technology

## CNT140AB <br> Introduction to Networks <br> 4 credit(s) 6 period(s) lecture + lab

Focus on the architecture, structure, functions, components, and models of the Internet and other computer networks. Principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced. Students will build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. Preparation for Cisco certification examination. Prerequisites: None.

## CNT150AB

## Switching, Routing, and Wireless Essentials <br> 4 credit(s) 6 period(s) lecture + lab

Focus on configuring switches and routers for use in small and medium size networks. Including Virtual Local Area Networks (VLANs), VLAN trunking, Inter-VLAN routing, Spanning Tree Protocol (STP), EtherChannel, Dynamic Host Configuration Protocol (DHCP), First Hop Redundancy, Local area Network (LAN) and Switch security, and Static routing. Knowledge and skills needed to implement a Wireless Local Area Network (WLAN) is also covered. Preparation for Cisco certification examination. Prerequisites: A grade of C or better in CNT140AB or permission of Instructor.

## CNT160AB

## Enterprise Networking, Security, and Automation

4 credit(s) 6 period(s) lecture + lab
Focus on the configuration of routers and switches within small and medium size networks for advanced functionality including Open Shortest Path First (OSPF), Network security, Access Control Lists (ACLs), Network Address Translation (NAT), Wide Area Network (WAN) concepts, Virtual Private Networks (VPNs), Quality of Service (QOS), network management, design, troubleshooting, virtualization, and automation. Preparation for Cisco certification examination. Prerequisites: A grade of C or better in CNT150AB or permission of Instructor.

CNT202

## Cisco Secure Firewall Appliance Configuration

4 credit(s) 5 period(s) lecture + lab
Applications of Cisco Networking technologies in designing and implementing security solutions to reduce risk of revenue loss and vulnerability. Hands-on experience and skills in security policy design and management, security technologies, products and solutions, secure firewall design, installation, configuration and maintenance, Authentication, Authorization, and Accounting (AAA), Failover, and Virtual Private Network (VPN) implementation using firewalls. Prerequisites: A grade of C or better in CNT160AB or permission of Instructor.

## CNT205

## Cisco Certified Network Associate Security

4 credit(s) 6 period(s) lecture + lab Associate-level knowledge and skills required to secure Cisco networks. Development of a security infrastructure, identification of threats and vulnerabilities to networks. Mitigation of security threats. Core security technologies. Installation, troubleshooting and monitoring of network devices to maintain integrity, confidentiality and availability of data and devices. Competency in the technologies that Cisco uses in its security structure. Prerequisites: A grade of C or better in CNT160AB, or Cisco Certified Network Associate (CCNA) certification, or
permission of Instructor.

## COM - Communication

COM100 COM 1100 sunm
Introduction to Human Communication
3 credit(s) 3 period(s) lecture
Introduces the theory and practice of human communication. Surveys communication topics related to interpersonal, small group, and public communication. Prerequisites: None.

## COM110 COM 1110 sunm

## Interpersonal Communication

3 credit(s) 3 period(s) lecture
Theory and practice of communication skills which affect day-to-day interactions with other persons. Topics may include using verbal and nonverbal symbols, interactive listening, resolving interpersonal conflict, developing and maintaining personal and professional relationships. Prerequisites: None.

## COM181

## Conflict Mediation

3 credit(s) 3 period(s) lecture
Develop communication skills necessary to conduct mediation in formal and informal settings. Applies principles and theories of message production and responding, listening, questioning, source and receiver factors, and emotion to conflict management communication. Emphasis on respecting diversity and empowering joint problem solving throughout. Prerequisites: None.

## COM207

## Introduction to Communication Inquiry

3 credit(s) 3 period(s) lecture
Overview of theory and methodological practice in communication with particular attention to scholarly writing skills. Emphasis on development of critical thinking skills through active participation in the research process. Prerequisites: A grade of C or better in ENG101 or ENG107 or equivalent, and COM100 or equivalent, or permission of Instructor. Course Notes: COM207 is recommended for the communication major.

## COM222

## Argumentation

3 credit(s) 3 period(s) lecture
Discussion and practice of the use of evidence, applied reasoning, recognition of fallacies, selection of arguments, and methods of analyzing issues. Prerequisites: A grade of C or better in ENG101 or ENG107 or equivalent.

## COM225

## Public Speaking

3 credit(s) 3 period(s) lecture
Designed to enhance the student's ability to present public speeches confidently and competently. Also designed to improve information literacy and critical thinking skills. Prerequisites: A grade of C or better in ENG101 or ENG107, or equivalent.

COM230 COM 2271 Eunct
Small Group Communication 3 credit(s) 3 period(s) lecture
Principles and processes of small groups and development of skills for participation and leadership in
small group settings. Practice in problem solving, decision making, and information sharing.
Prerequisites: None.

## COM/THP241

Oral Interpretation of Literature
3 credit(s) $\mathbf{3}$ period(s) lecture
The study, analysis, and preparation for performance of prose, poetry, and dramatic literature. Preparation of material for public audiences. Prerequisites: A grade of C or better in ENG101 or ENG107.

COM250

## Introduction to Organizational Communication

3 credit(s) 3 period(s) lecture
Introduction to the study of communication in organizations including identification of variables, roles and patterns influencing communication in organizations. Prerequisites: None.

## COM259

Communication in Business and Professions
3 credit(s) 3 period(s) lecture Interpersonal, organizational, intercultural, group, and public communication in business and professional organizations. Emphasis on oral communication and the effective use of technology and new media. Prerequisites: A grade of C or better in ENG101 or ENG107 or equivalent.

## COM263

## Elements of Intercultural Communication

3 credit(s) 3 period(s) lecture
Diverse cultural contexts are explored through basic concepts, principles, and theories of intercultural communication. Discovering effective interaction and appropriate communication in a global community is emphasized. Prerequisites: None.

## COM/THP271

Voice and Diction
3 credit(s) 3 period(s) lecture
Exercises and techniques to free the voice and improve projection, resonance, and articulation. Covers international phonetic alphabet and standard stage speech. Prerequisites: None.

COM281AB
Communication Activities
3 credit(s) 5 period(s) lecture + lab
Designed to provide students with competence and confidence in a variety of speech situations beyond the classroom setting. May include presentations at speech competitions or at community organizations. Prerequisites: None. Course Notes: COM281AB may be repeated for a total of six (6) credit hours.

## COM298AA-AC

Special Projects
$\mathbf{1 - 3}$ credit(s) $\mathbf{1 - 3}$ period(s) lab
Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance.

Professional type facilities and equipment are made available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development. Prerequisites: None.

## CON - Construction

## CON101

Construction and Culture 3 credit(s) 3 period(s) lecture
The cultural context of construction, emphasizing the evolution and expansion of constructed environments as expressions of ethical and historical value systems. Prerequisites: None

## CPD - Counseling and Personal Development

## CPD101

## Personal Development

2 credit(s) 2 period(s) lecture
Designed to assist students in developing confidence in making personal, social, and educational decisions. Examination and assessment of individual needs, interests, abilities, and values to develop and strengthen interpersonal communication, enhance transitional skills, and identify realistic life planning goals. Prerequisites: None.

## CPD102 Counseling Topics

Counseling courses offered as special topics for students. Emphasis on skill development in areas of personal concern.

## CPD102AA

## Assertiveness Training

2 credit(s) 2 period(s) lecture
Designed to help students differentiate assertive, non-assertive and aggressive behavior, overcome blocks to acting assertively, establish boundaries, and develop effective verbal and nonverbal assertive behavior. Group discussion, role playing, and videotape feedback are used to enable students to express feelings, beliefs, and opinions in a direct, appropriate manner. Prerequisites: None.

## CPD102AB

## Career Exploration

## 2 credit(s) 2 period(s) lecture

Designed to assist students make informed career decisions. Focuses on current occupational trends and outlook. Explores career-related interests, values, needs, preferences, skills, and strengths with the use of various assessments. Aids in the development of individualized educational/ career goals and action plan. Prerequisites: None. Course Notes: CPD102AB may be repeated for a total of six (6) credit hours.

## CPD102AD

## Growth and Transformation Strategies

2 credit(s) 2 period(s) lecture
Designed to help students adopt a growth mindset within a holistic framework in order to transform patterns that prevent them from achieving their goals. Prerequisites: None.

## CPD102AH

## Stress Management

## 2 credit(s) 2 period(s) lecture

Reviews the sources of stress, the physiological effects and the psychological impact of stress on the individual. Provides strategies to manage and reduce stress. Helps students develop and understand behaviors to create a healthy balance in their lives by studying the biological, psychological, physiological, and social aspects of stress and wellness. Prerequisites: None.

## CPD102AN

## Anger Management

2 credit(s) 2 period(s) lecture
Provides an understanding of the emotion of anger, explores the types, origins and typical reactions to
anger. Covers stress and the need for stress management in relation to anger. Examines personal anger patterns and feelings, and the use of effective interpersonal communications in effective anger management. Prerequisites: None.

## CPD102AR <br> Relaxation Training <br> 1 credit(s) 1 period(s) lecture

Emphasis on specific relaxation techniques to alleviate dysfunctional tension. Use of progressive relaxation methods to reduce stress. Discussion of other modalities of relaxation. Prerequisites: Permission of Instructor.

## CPD102AS

## Conflict Resolution

2 credit(s) 2 period(s) lecture
Developing new skills for dealing effectively with everyday conflict and improving quality of one's own life. Opportunity to discuss issues and seek cooperative resolutions. Prerequisites: None

## CPD102AT

## Building Self-Esteem

2 credit(s) 2 period(s) lecture
Practice in specific methods for building and keeping self-esteem. Personal assessment of attitudes, values, support systems, and goals. Prerequisites: None.

## CPD103 Counseling Groups

Counseling courses offered to meet the needs of special groups of students. Emphasis on self-assessment to increase students' confidence and potential.

## CPD103BA

Women in Transition
2 credit(s) 2 period(s) lecture
Designed to assist and support women who are experiencing life transitions. Emphasis on assessing selfpotential, increasing self- confidence, managing life change, and exploring educational/ career/life options in terms of the realities of roles for women today. Prerequisites: None.

## CPD103BC

## African American Cultural Pride and Awareness

## 2 credit(s) 2 period(s) lecture

Develop an awareness of cultural roots, history, and traditions with emphasis on the shaping of personal identity, social, career, and educational decisions. Prerequisites: None.

## CPD103BD

## Latino/Hispanic American Pride and Awareness

2 credit(s) 2 period(s) lecture
Develop an awareness of cultural roots, history, and traditions with emphasis on the shaping of personal identity, social, career, and educational decisions. Prerequisites: None.

## CPD103BE

Native American Cultural Pride and Awareness
2 credit(s) 2 period(s) lecture

Develop an awareness of cultural roots, history, and traditions with emphasis on the shaping of personal identity, social, career, and educational decisions. Prerequisites: None.

## CPD104

## Career and Personal Development

3 credit(s) 3 period(s) lecture
An overview of the holistic process of career/life planning through self-awareness and understanding of the world of work. Exploration and application of behavioral, social, and cultural factors leading to college, career, and personal success with emphasis on assessment, applied behavior management, motivation, self-care, and career development. Prerequisites: None.

## CPD108

## Personal Money Management for College Students

1 credit(s) 1 period(s) lecture
Designed to assist students in examining values related to spending, borrowing and saving money. Identify financial priorities and responsibilities associated with debt. Develop and follow a personal budget plan and learn strategies for maintaining a financially balanced personal life. Prerequisites: None.

## CPD/AAA115

## Creating College Success

1 credit(s) 1 period(s) lecture
Strategies to create success in college. Methods for selecting and developing effective academic strategies, increasing self-awareness and developing self- management strategies. Elements of college resources and relationships with others explored in support of students' educational experience.
Prerequisites: None.

## CPD/AAA150

Strategies for College Success
3 credit(s) 3 period(s) lecture
Focus on increasing student success through college orientation and personal growth, study skills development, and educational and career planning. Prerequisites: None.

## CPD160

## Introduction to Multiculturalism

3 credit(s) 3 period(s) lecture
Examination of the multiple cultures and subcultures within the contemporary United States. Personal exploration of awareness and appreciation of multiculturalism. Activities for experiencing diverse cultural perspectives. Critical thinking skills for recognizing, analyzing, and mediating cultural and psychological factors impacting conflict and accord between diverse cultures through written and oral discourse. Prerequisites: A grade of C or better in ENG101, or ENG107, or permission of Instructor

## CRE - Critical Reading

Please Note: For additional Reading courses, see RDG.
CRE101
College Critical Reading and Critical Thinking 3 credit(s) 3 period(s) lecture
Develop and apply critical thinking skills through critically reading varied and challenging materials. Includes analysis, evaluation, interpretation, and synthesis through at least two substantial writing and/ or speaking task. Prerequisites: A grade of C or better in [(ENG101 or ENG107) and (RDG095, or RDG100, or RDG100LL, or RDG111, or RDG112, or RDG113)], or a grade of B or better in ALT100, or an appropriate district placement, or permission of Instructor.

## CRW - Creative Writing

CRW120

## Introduction to Writing Children's Literature

3 credit(s) 3 period(s) lecture
Overview of writing children's literature. Emphasis on genres and standards for quality. Development of techniques in reading, evaluating, writing, revising, and editing literature written for children.
Prerequisites: None. ENH291 suggested but not required.
CRW150
Introduction to Creative Writing
3 credit(s) 3 period(s) lecture
Introduction to the basic aesthetics and techniques in contemporary creative writing within a variety of genres. Introduction to the analytical concepts and terminology necessary to understand, interpret, and enact contemporary creative writing. Facilitation of writing practices and evaluation. Introduction to literature's role in society. Prerequisites: None.

## CRW160

Introduction to Writing Poetry
3 credit(s) 3 period(s) lecture
Prewriting (invention and discovery); writing; analyzing and evaluating (in workshop); and revising to practice manipulating various elements of poetry, critique one's own and the poetry of others, and produce a portfolio of finished, marketable poems. Prerequisites: None. CRW150 recommended but not required.

## CRW170

## Introduction to Writing Fiction

3 credit(s) 3 period(s) lecture
Practice in writing fiction through a process of prewriting (invention and discovery), writing, analysis and evaluation (in workshop), and revision; practice in manipulating various elements and forms of fiction. Prerequisites: None. CRW150 recommended but not required.

## CRW172

## Introduction to Comic Book Writing

3 credit(s) 3 period(s) lecture
Introduction to elements and techniques of comic book writing in its specific form; teaches terminology and concepts needed for the successful participation in writing workshops; focuses on proposal outline, planning, structure facilitates writing practice (including character study) and evaluation; offers individual suggestions in the student's development in this genre. Prerequisites: None.

## CRW180

## Introduction to Writing Nonfiction

3 credit(s) 3 period(s) lecture
Practice in writing creative nonfiction, including autobiography and biography, the essay, reviews, and humor using a process of invention and discovery, writing, analysis, evaluation, and revision. Combines lecture, discussion, and workshop, leading to the production of marketable quality creative nonfiction. Prerequisites: None. CRW150 recommended but not required.

## Introduction to Screenwriting

3 credit(s) 3 period(s) lecture
Overview of screenwriting elements; introduction to screenwriting techniques. Prerequisites: None. CRW150 recommended but not required.

## CRW200

## Readings for Writers

1 credit(s) 1 period(s) lab
Close analysis and interpretation of selected literary texts designed to strengthen the students' own writing by extending their familiarity with the genre in which they write and their knowledge of selected literary elements. One-on-one meetings between student and Instructor. Prerequisites: A grade of C or better in CRW150, or permission of Instructor. Course Notes: CRW200 may be repeated for a total of six (6) credits.

## CRW201

## Portfolio

## 1 credit(s) 1 period(s) lab

Close analysis of the creative writing portfolio culminating in selection, revision, editing, and compiling of the student's own literary work in a portfolio. Students meet individually with Instructor to choose, prepare, and compile their work. Prerequisites: (Acceptance into Creative Writing Certificate Program and completion of at least nine (9) credit hours in creative writing (CRW)), or permission of Program Director. Course Notes: CRW201 may be repeated for a total of two (2) credit hours.

## CRW202

The Writer As Witness

## 3 credit(s) 3 period(s) lecture

Studio course focusing on writing with the writer as witness of the world: prewriting, writing, analysis, evaluation, and writing of monologue and dialogue in various formats. Prerequisites: A grade of C or better in CRW150, or permission of Instructor.

CRW203

## Dialogue

## 3 credit(s) 3 period(s) lecture

Studio course focusing on writing dialogue in a variety of genres; prewriting, writing, analysis, evaluation, and revision of monologue and dialogue in various formats. Prerequisites: A grade of C or better in CRW150 or permission of Instructor.

CRW220

## Intermediate Writing Children's Literature

3 credit(s) 3 period(s) lecture
Application of techniques in writing literature for children. Emphasis on independent writing, selfevaluation, and revision. Includes completion of a major writing project of marketable quality.
Prerequisites: A grade of C or better in CRW120, or permission of Instructor
CRW260
Intermediate Poetry Writing
3 credit(s) 3 period(s) lecture
Emphasis on writing a series of original poems; analysis and evaluation of the functions and effects of established works of poetry; concentration on evaluation and revising students' poetry through intensive
workshopping. Prerequisites: A grade of C or better in CRW160 or permission of Instructor.

## CRW261

Topics in Writing: Poetry
3 credit(s) 3 period(s) lecture
Analysis, writing, and revision of genre or element within poetry. Prerequisites: A grade of C or better in CRW150 or permission of Instructor.

CRW270
Intermediate Fiction Writing
3 credit(s) 3 period(s) lecture
Writing original short stories; analysis of works of fiction; concentration on revising students' fiction through intensive workshopping. Prerequisites: A grade of C or better in CRW170 or permission of Instructor.

CRW271
Topics in Writing: Fiction
3 credit(s) 3 period(s) lecture
Analysis, writing, and revision of genre or element within fiction. Prerequisites: A grade of C or better in CRW150 or permission of Instructor.

CRW272
Planning and Structuring the Novel
3 credit(s) 3 period(s) lecture
Focus on planning, structuring, and beginning a novel; prewriting, writing, analysis, evaluation, and revision of novel plans and excerpts. Prerequisites: A grade of C or better in CRW150 or permission of Instructor

## CRW273

## Writing the Novel

 3 credit(s) 3 period(s) lectureProvides the beginning novelist with structure, support, and guidance vital to sustained writing; focus on establishing goals and using critique sessions with Instructor and peers to draft a novel; open- and topicfocused in-class forums, novel writing, peer and Instructor critiques. Prerequisites: A grade of C or better in CRW272 or permission of Instructor.

CRW274

## Revising the Novel

## 3 credit(s) 3 period(s) lecture

Studio course workshop format. Requires a complete novel finished, in manuscript, ready for revision and polishing. Prerequisites: A grade of C or better in CRW273 or permission of Instructor.

## CRW281

Topics in Writing: Non-Fiction
3 credit(s) 3 period(s) lecture
Analysis, writing, and revision of genre or element within non-fiction. Prerequisites: A grade of C or better in CRW150 or permission of Instructor

## Intermediate Screenwriting

## 3 credit(s) 3 period(s) lecture

Drafting and revision of original screenplay; overview of marketing a screenplay. Prerequisites: A grade of C or better in CRW190 or permission of Instructor.

CRW291
Topics in Writing: Plays 3 credit(s) 3 period(s) lecture
Analysis, writing, and revision of genre or element within plays and/or motion picture screenplays. Prerequisites: A grade of C or better in CRW150 or permission of Instructor.

## CSC - Computer Science

CSC110<br>Introduction to Computer Science (Java)<br>3 Credit(s) 3 Periods lecture + lab

Concepts of problem-solving, structured and object-oriented programming in Java, fundamental algorithms and techniques and computer system concepts. Social and ethical responsibilities. Intended for Computer Science and Computer Systems Engineering majors. Requisites: Prerequisites: A grade of C or better in MAT095, or MAT096, or MAT114, or MAT115, or MAT12+, or an appropriate District placement for MAT15+ or higher, or permission of Instructor or Department/Division Chair.

## CSC120

## Digital Design Fundamentals

4 Credit(s) 6 Period(s) lecture + lab
Number systems, conversion methods, binary and complement arithmetic, Boolean switching algebra and circuit minimization techniques. Analysis and design of combinational logic, flip-flops, simple counters, registers, Read Only Memory (ROMs), Programmable Logic Device (PLDs), synchronous and asynchronous sequential circuits, and state reduction techniques. Building physical circuits. Requisites: Prerequisites: None. Corequisites: CSC100 or CSC110 or Permission of Instructor or Division or Department Chair.

## CSC205

## Object Oriented Programming and Data Structures

3 Credit(s) 3 Period(s) lecture + lab
Covers Object-Oriented design and programming; elementary data structures; arrays; lists; stacks; queues; binary trees; recursion; searching and sorting algorithms. Requisites: Prerequisites: A grade of C or better in CSC110, or permission of Instructor.

## CSC205AB

## Object Oriented Programming and Data Structures

4 Credit(s) 4 Period(s) lecture + lab
Covers Object-Oriented design and programming; elementary data structures; arrays; lists; stacks; queues; binary trees; recursion; searching and sorting algorithms. Requisites: Prerequisites: A grade of C or better in CSC110, or permission of Instructor.

CSC230
Computer Organization and Assembly Language
4 Credit(s) 4 Period(s) lecture + lab
Assembly language programming including input/output (I/O) programming and exception/interrupt handling. Register-level computer organization, I/O interfaces, assemblers, and linkers. Processor organization and design, data path, control, pipelining, and input/output. Memory organization with cache and virtual memory. Requisites: Prerequisites: A grade of C or better in [(CSC100 or CSC110) and CSC/EEE120], or permission of Instructor or Division or Department Chair. Cross-References: EEE230

CSC240
Introduction to Different Programming Languages
3 Credit(s) 5 Period(s) lecture + lab
Introduction to procedural (C/C++), applicative (LISP), and declarative (Prolog) languages. Requisites: Prerequisites: A grade of C or better in CSC205 or permission of Instructor.

## CUL - Culinary Arts

## CUL113

Commercial Baking Techniques
3 credit(s) 5 period(s) lecture + lab
Principles and techniques for preparation, storage, and serving of bakery products. Includes breads, cakes, pies, pastry, cookies, fillings, and icings. Emphasis on practical experiences in a commercial bakery. Prerequisites: None. Course Notes: Students must have or obtain a current Maricopa County Arizona Food Handler`s Certificate prior to food handling activities to successfully participate in the course. Recommend students complete this prior to the start of the course.

## CUL115

## Food Service Sanitation, Safety and Stewarding

2 credit(s) 2 period(s) lecture
Focuses on the theory and practice of food service safety and sanitation. Emphasis on understanding and applying the Hazard Analysis Critical Control Points (HACCP) concept. Reviews legal elements of food service sanitation based on requirements and recommendations of Maricopa County Health Department. Focuses on stewarding as an important kitchen support service with emphasis on appropriate practices and principles of receiving food and product rotation. Prerequisites: None

## CUL119

## Baking Theory and Retail Operations

3 credit(s) 3 period(s) lecture
Baking principles to include detailed study of ingredients, heat transfer, and recipe conversions. Basic business operations for a retail bakery including bakery product line and floor plan design.
Prerequisites: None.

## CUL127

## Classical Desserts

3 credit(s) 5 period(s) lecture + lab
Advanced principles and techniques in commercial baking and dessert preparation. Focus on fine pastries with European flair and on desserts served in better hotels, restaurants, and resorts. Preparation of macaroons, tarts, puff pastries, specialty cakes, and desserts such as Bavarian creams, mousses, custards, soufflés, crepe desserts, and flammeries. Preparation and use of sauces, techniques for using nuts and chocolate, and exploration of new recipes. Prerequisites: A grade of C or better in CUL113, or permission of Program Director.

## CUL137

## Breads and Breakfast Pastry

## 3 credit(s) 5 period(s) lecture + lab

The preparation of classical and artisan breads using advanced production techniques and skills. Classic breakfast pastry, with the production of laminated doughs, sweet doughs, and rich yeast doughs to include Danish, croissant, puff pastry, brioche, and other international classics. Completion of edible centerpieces made out of various styles of bread. Prerequisites: None. Course Notes: Students must have or obtain a current Maricopa County Arizona Food Handler`s Certificate prior to food handling activities to successfully participate in the course. Recommend students complete this prior to the start of the course.

## CUL215

## Advanced Pastry Arts

3 credit(s) 5 period(s) lecture + lab
Advanced pastry arts and decorative work as applied to showpieces and special occasion cakes. Includes sugar work such as pulled, blown, and poured as well as the use of tempered and modeling chocolate. Design and execution of a three-tier wedding cake as well as work on a special occasion and team wedding cake using gum paste, pastillage, chocolate, or marzipan. Includes desserts for special diets and spa desserts. Prerequisites: A grade of C or better in CUL113 or permission of Program Director. Course Notes: CUL215 may be repeated for a total of six (6) credit hours.

## CUL217

## Wedding Cake Production

3 credit(s) 5 period(s) lecture + lab
Basic and advanced execution for special occasion, wedding, and groom`s cakes to include initial design work, baking, icing, and advanced finishing techniques to include the use of fondant and gum paste. Enhancement of cakes to include basic sugar, pastillage, and chocolate decoration. Prerequisites: A grade of C or better in CUL113 or permission of Program Director.

CUL219
Professional Pastry Techniques
3 credit(s) 5 period(s) lecture + lab Advanced production techniques for plated desserts, frozen desserts, modern and classical gateaux, petits fours, and chocolates. Prerequisites: A grade of C or better in CUL113 or permission of Program Director.

## CWE - Career Work Experience

CWE198AC
Career/Work Experience
3 credit(s) 3 period(s) lecture and lab
Participation in a work experience, gaining on-the-job training, and/or exploring a career or field of choice. Helps students relate their education to the real work world. Resume writing and interviewing skills. Development of employability skills. Prerequisites: None.

## DAE - Dental Assisting Education

DAE112

## Dental Assisting I

$7 \operatorname{credit}(\mathrm{~s}) 17$ period(s) lecture and lab
Introduction to general dentistry, dental sciences, and basic preclinical dental assisting theory and skills. Topics include dental anatomy, recording oral conditions, infection control, patient preparation, communication, patient safety and comfort, emergency management, four-handed dentistry concepts and the use and maintenance of dental equipment, and development of professional behaviors. Prerequisites: Acceptance into the Dental Assisting Program or permission of Program Director.

DAE124

## Dental Radiography

2 credit(s) 2 period(s) lecture
Physics of radiography, theory of radiation production, exposure techniques, radiation protection, digital image production, film processing, mounting, and interpretation of radiographs. Prerequisites: A grade of C or better in DAE156 or permission of Program Director. Corequisites: DAE131 or permission of Program Director.

## DAE131

## Dental Radiography Laboratory

2 credit(s) 6 period(s) lab
Radiation safety and infection control procedures for operator and patient. Image receptor placement, exposure, processing, mounting, and evaluation of dental radiographs. Operation and maintenance of xray and processing equipment. Interpretation of radiographic findings. Prerequisites: A grade of C or better in DAE156 or permission of Program Director. Corequisites: DAE124 or permission of Program Director.

## DAE140

## Dental Issues Seminar

1 credit(s) 1 period(s) lecture
Examination of legal and ethical responsibilities of dental team members. Review and analysis of clinical procedures in general and specialty practices. Includes professional and career development strategies and certification information and processes. Prerequisites: A grade of C or better in DAE156 or permission of Program Director. Corequisites: (DAE224, DAE225, DAE226, DAE227, and DAE228) or permission of Program Director.

## DAE156

## Dental Assisting II

7 credit(s) 17 period(s) lecture and lab
Intermediate dental assisting skills, with an emphasis in treatment provided in general dentistry, including an introduction to dental diseases and their prevention, and preparing for and assisting in general dental restorative procedures, including the use of local anesthetics, dental materials, and pharmacological agents for procedures. Introduction to ethics and the legal aspects of dental practices. Prerequisites: A grade of C or better in DAE112 or permission of Program Director.

## 2 credit(s) 4 period(s) lecture and lab

Advanced dental assisting skills, with an emphasis in assisting for dental specialty procedures, including pediatrics, endodontics, periodontics, orthodontics, prosthodontics, and oral and maxillofacial surgery. Additional emphasis will be on expanded functions procedures performed by the dental assistant, as well as patient records management and pharmacology related to dental treatment procedures. Prerequisites: A grade of C or better in DAE156 or permission of Program Director.

## DAE224

## General Clinical Practice

1 credit(s) 5 period(s) lab
Placement of students in general practice dental facilities for supervised practical experience.
Prerequisites: DAE112 and DAE156, or Permission of Program Director. Corequisites: A grade of C or better in DAE140 or permission of Program Director.

DAE225
Pediatric Clinical Practice
1 credit(s) 5 period(s) lab
Placement of students in pediatric practice dental facilities for supervised practical experience.
Prerequisites: A grade of C or better in DAE112 and DAE156, or Permission of Program Director.
Corequisites: DAE140 or permission of Program Director.

## DAE226

Periodontal Clinical Practice
1 credit(s) 5 period(s) lab
Placement of students in periodontal practice dental facilities for supervised practical experience.
Prerequisites: A grade of C or better in DAE112 and DAE156, or Permission of Program Director.
Corequisites: DAE140 or permission of Program Director.
DAE227

## Orthodontic Clinical Practice

1 credit(s) 5 period(s) lab
Placement of students in orthodontic practice dental facilities for supervised practical experience.
Prerequisites: A grade of C or better in DAE112 and DAE156, or Permission of Program Director.
Corequisites: DAE140 or permission of Program Director.

## DAE228

Oral and Maxillofacial Surgery Clinical Practice 1 credit(s) 5 period(s) lab
Placement of students in oral and maxillofacial surgical facilities for supervised practical experience.
Prerequisites: A grade of C or better in DAE112 and DAE156, or Permission of Program Director.
Corequisites: DAE140 or permission of Program Director.

## DAE256

## Dental Assisting IV

2 credit(s) 4 period(s) lecture and lab Advanced dental assisting sciences, with an emphasis in the recognition of oral pathologies, use of technology in dentistry, intermediate dental office management skills, and legal considerations for the practice of dentistry. Additional emphasis will be placed on coronal polishing and community oral health. Prerequisites: A grade of C or better in

DAE212 or permission of Program Director.

## DAE298AA-AC

Special Projects

## $\mathbf{1 - 3}$ credit(s) 1-3 period(s) lab

Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance.
Professional-type facilities and equipment are made available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development.
Prerequisites: None.

## DAH - Dance Humanities

## DAH100

## Introduction to Dance

3 credit(s) 3 period(s) lecture
Overview of the field of dance focusing on origins, historical development, and cultural characteristics of the various styles of dance. Prerequisites: None.

## DAN - Dance

## DAN129

Musical Theatre Dance I
3 credit(s) 3 period(s) lecture + lab Introduction to the theory and practice of musical theatre dance at the beginning level. Development of movement quality and performance skills. Prerequisites: None. Course Notes: DAN129 may be repeated for credit

## DAN132

Modern Dance I
3 credit(s) 3 period(s) lecture + lab Introduction to the theory and practice of modern dance at the beginning level. Development of movement quality and performance skills. Prerequisites: None. Course Notes: DAN132 may be repeated for credit.

## DHE - Dental Hygiene Education

## DHE110

## Pharmacology

3 credit(s) 3 period(s) lecture
Study of the principles of pharmacology and drugs affecting oral health and dental treatment. Topics include drug interactions, oral manifestations, drugs used in dentistry and alternative medicine.
Prerequisites: Admission to the Dental Hygiene Program or permission of Instructor.

## DHE112

## Oral Pathology

3 credit(s) 3 period(s) lecture
Identification, classification, etiology and treatment of lesions of the oral mucosa and atypical conditions of the oral cavity and supporting structures. Understanding of abnormal conditions to recognize the parameters of comprehensive dental hygiene care. Multimedia resources are used extensively for identification of oral lesions. Prerequisites: Admission to the Dental Hygiene Program or permission of Instructor.

## DHE115

## Emergency Medicine

2 credit(s) 2 period(s) lecture
Introduction to recording and interpreting medical history. Additional topics include: recognition of signs and symptoms of medical emergencies, procedures and techniques introduced to prevent emergencies and management of emergency situations in the dental environment. Prerequisites: Admission to the Dental Hygiene Program.

## DHE117

## Dental Radiography

2 credit(s) 2 period(s) lecture
Physics of radiography, theory of radiation production, exposure techniques, radiation protection, image processing, mounting, and interpretation of radiography. Course activities include multimedia resources. Prerequisites: Admission to the Dental Hygiene Program or permission of Program Director

## DHE119

## Head and Neck Anatomy

3 credit(s) 3 period(s) lecture
Study of the structures of the head and neck relevant to dental hygiene. Topics include: osteology, musculature, vascular supply, lymph and glandular tissue, cranial nerves and routes of infection. Course activities include use of skulls, models and multimedia resources. Prerequisites: Admission to the Dental Hygiene Program or permission of Instructor.

## DHE120

## Pre-Clinical Dental Hygiene

6 credit(s) 12 period(s) lecture + lab
Introduction to the dental hygiene profession and the process of care. Infection control, patient assessment, preventive treatment and dental hygiene instrumentation are practiced. Students are introduced to self-assessment skills and quality improvement. Prerequisites: Admission to the Dental Hygiene Program or permission of Instructor.

## DHE121

## Dental Anatomy, Embryology and Histology

2 credit(s) 3 period(s) lecture + lab
Includes the histology and embryology of oral tissues; developmental disturbances of the face, oral cavity, and related structures; tooth composition and morphology including anomalies; eruption patterns and occlusal evaluation. Use of skulls, models and multimedia resources also covered.
Prerequisites: Admission to the Dental Hygiene Program.

## DHE125

## Dental Radiography Laboratory

1 credit(s) 3 period(s) lab
Radiation safety and infection control procedures for operator and patient. Image receptor placement, exposure, processing, mounting and evaluation of dental radiographs. Operation and maintenance of Xray and processing equipment. Interpretation of radiographic findings. Requisites: A grade of C or better required in all Prerequisites. Prerequisites or Corequisites: (DHE117 and admission to the Dental Hygiene Program) or permission of Program Director.

## DHE127

## Prevention of Dental Disease

3 credit(s) 3 period(s) lecture
Introduction to preventive aids, agents, and coaching to help patients achieve optimum oral health, reduce incidence of disease, and minimize risk of oral injury. Instills critical thinking in etiologic agents, cariology, fluorides, sealants, nutrition, and their oral and systemic implications. Prerequisites:
Admission to the Dental Hygiene Program or permission of Instructor.

## DHE132

## Dental Hygiene Theory I

3 credit(s) 5 period(s) lecture + lab
Study of the dental hygiene process of care with emphasis on assessment, planning and implementation. Topics include instrumentation, adjunct dental hygiene services, instrument sharpening, computer technology, dental specialties and professional accountability. Prerequisites: A grade of C or better in (DHE120 and admission to the Dental Hygiene Program) or permission of Instructor. Corequisites: DHE133.

## DHE133

## Dental Hygiene Clinic I

3 credit(s) 9 period(s) lab
Application of the dental hygiene process of care with emphasis on assessment, planning, and implementation. Introduction to evaluation of dental hygiene therapy. Prerequisites: A grade of C or better in DHE120 and admission to the Dental Hygiene Program. Corequisites: DHE132 and current CPR card.

## DHE201

## Dental Materials

2 credit(s) 2 period(s) lecture
Composition, properties and criteria for use of dental materials. Principles of manipulation of restorative, preventive, and laboratory dental materials. Prerequisites: Admission to the Dental Hygiene Program or permission of Program Director/Chair. Corequisites: DHE202.

## DHE202

## Dental Materials Laboratory <br> 1 credit(s) 3 period(s) lab

Manipulate permanent and temporary restorative materials, impression materials/ systems, cements, bases and liners. Fabricate mouth protectors, tooth whitening appliances and study models. Laboratory proficiency in margination of permanent restorative materials. Prerequisites: Admission to the Dental Hygiene Program or permission of Program Director/Chair. Corequisites: DHE201.

## DHE212

## Dental Hygiene Theory II

2 credit(s) 3 period(s) lecture + lab
Study of the dental hygiene process of care with emphasis on comprehensive care planning, case presentation, and clinical decision making. Introduction to advanced periodontal instrumentation.
Prerequisites: A grade of C or better in DHE132 and DHE133 and admission to the Dental Hygiene Program. Corequisites: DHE213.

## DHE213

## Dental Hygiene Clinic II

5 credit(s) 15 period(s) lab
Application of the dental hygiene process of care with emphasis on comprehensive care planning, case presentation, clinical decision making, advanced instrumentation and improved time utilization.
Prerequisites: A grade of C or better in DHE132 and DHE133 and admission to the Dental Hygiene Program. Corequisites: DHE212.

## DHE219

## Practice Management

2 credit(s) 2 period(s) lecture
Integration of practice management concepts and comprehensive quality patient care in preparation for future collaborative practice between dental hygienists and dentists. Students are challenged with practice situations including productivity, conflict management, ethical and legal issues. Prerequisites: Admission to the Dental Hygiene Program or permission of Instructor.

## DHE225

## Periodontics

3 credit(s) 3 period(s) lecture
Principles of periodontology; etiology, microbiology, pathogenesis, classification and characteristics of healthy and diseased periodontal tissues. Surgical treatment of periodontal disease and the effects of dental hygiene therapy, surgical techniques and maintenance therapy. Evaluation of the scientific literature and multi-media resources are used extensively. Prerequisites: Admission to the Dental Hygiene Program or permission of Instructor

## DHE227

Dental Anesthesia
2 credit(s) 5 period(s) lecture and lab
A comprehensive lecture and laboratory course providing concepts and techniques for the administration of local anesthetic agents and nitrous oxide. Experience gained in medical history review, electronic recordkeeping, patient management, and hands-on experience administering local anesthetics and nitrous oxide in a clinical setting. Prerequisites: A grade of C or better in DHE119.

## DHE229

## Community Oral Health

3 credit(s) 3 period(s) lecture
An examination of methods used to assess the oral health status of the community and to plan, implement, finance and evaluate dental public health programs. Focus on community-based health promotion and disease prevention measures to improve the oral health of the population, as well as the characteristics of dental care delivery systems and the social, political, psychological and economic factors affecting utilization within the system. Prerequisites: Admission to the Dental Hygiene Program or permission of Instructor.

## DHE232

Dental Hygiene Theory III
2 credit(s) 2 period(s) lecture + lab
Study of the dental hygiene process of care with emphasis on the patient with special needs and advanced instrumentation. Students participate in field observations and present case documentations. Prerequisites: A grade of C or better in (DHE212 and DHE213), and admission to the Dental Hygiene Program. Corequisites: DHE233.

DHE233
Dental Hygiene Clinic III
5 credit(s) 15 period(s) lab
Application of the dental hygiene process of care with emphasis on diverse populations. Students prepare for clinical practice using self-assessment evaluation and critical thinking skills. Prerequisites: A grade of C or better in (DHE212 and DHE213), and admission to the Dental Hygiene Program.
Corequisites: DHE232.

## ECE - Engineering Science

## ECE102 EGR 1102 sunm

## Engineering Analysis Tools and Techniques

2 credit(s) 4 period(s) lecture + lab
Learning culture of engineering, engineering use of computer tools, and computer modeling as applied to engineering analysis and design. Prerequisites: A grade of C or better in MAT15+ or higherlevel mathematics course, or permission of Instructor or Division or Department Chair.

## ECE103 EGR 1102 sunv

## Engineering Problem Solving and Design

2 credit(s) 4 period(s) lecture + lab Fundamentals of the design process: engineering modeling, communication, and problem-solving skills in a team environment. Emphasis on process-based improvements to the design process. Introduction to engineering as a profession. Prerequisites: A grade of C or better in ECE102 or permission of instructor or Division or Department Chair. Course Notes: Student may receive credit for only one of the following: ECE103 or ECE103EP.

## ECE105

## MATLAB Programming

1 credit(s) 2 period(s) lecture + lab
Use MATLAB to solve engineering problems. An overview of programming, including matrices, structures, strings, functions, control flow, file management, data analysis, graphing capabilities, and mathematical calculations. Prerequisites: A grade of C or better in [(MAT150 or MAT151 or MAT152 or MAT155 or MAT156) and MAT182] or MAT187 or higher-level mathematics course or permission of Instructor or Division or Department Chair.

## ECE111

## Bioengineering Systems

3 credit(s) 3 period(s) lecture
Introduction to biological concepts and application of engineering to biological and earth systems. Analysis of materials, structures, fluid mechanics, bioelectricity, and dynamics as applied to biological and environmental systems. Prerequisites: None

## ECE211

## Engineering Mechanics - Statics

3 credit(s) 5 period(s) lecture and lab Modeling of static equilibrium in particles and rigid bodies through analysis of forces and mechanical properties. Prerequisites: A grade of C or better in PHY115 or PHY121 or permission of Instructor or Division or Department Chair. Corequisites: MAT230 or MAT231 or permission of Instructor or Division or Department Chair.

## ECE212

## Engineering Mechanics - Dynamics

3 credit(s) 5 period(s) lecture and lab
Kinematics and kinetics of particles, translating and rotating coordinate systems, rigid body kinematics, dynamics of systems of particles and rigid bodies, and energy and momentum principles. Requisites: A grade of C or better required in all Prerequisites. Prerequisites: [ECE211 and (PHY115 or PHY121)] or permission of Instructor or Division or Department Chair. Prerequisites or Corequisites: MAT240 or MAT241 or permission of Instructor or Division or Department Chair.

## ECE215

## Mechanics of Materials

## 3 credit(s) 5 period(s) lecture and lab

Designed to provide students with a strong fundamental foundation in the mechanics of solids. Includes the concepts of stress and strain applied to the analysis and design of members subjected to axial and torsional loads and members subjected to shear and bending, applications and transformation of plane stress and plane strain, deformation of beams, and elastic buckling of columns. Prerequisites: A grade of C or better in ECE211 or ECE214 or permission of Instructor or Division or Department Chair.

## ECE230

## Introduction to the Chemical Engineering Process 3 credit(s) 5 period(s) lecture + lab

Introduces fundamental skills and principles needed to analyze the industrial processes of importance to the chemical engineering profession. Prerequisites: A grade of C or better in CHM152 and MAT231. Course Notes: ECE230 course is designed for chemical engineering students.

ECE231
Introduction to Fluid Transport Phenomena
3 credit(s) 5 period(s) lecture + lab
Fundamental skills and principles of fluid transport on both macroscopic and microscopic scales using mass balances, momentum balances and energy balances to analyze and/or design fluid systems of interest in the chemical engineering profession. Prerequisites: A grade of C or better in PHY121.

## ECH - Early Childhood Education

## ECH/CFS176

Child Development
3 credit(s) 3 period(s) lecture
Study of the science of human development from conception through adolescence. Includes observation skills, parent and adult roles in the lives of children, and contemporary issues. Prerequisites: None.

ECH236

## Learning Materials for Young Children

1 credit(s) 1 period(s) lecture (Not offered every semester)
Design aspects of traditional early childhood play materials examined for teaching/ learning potential. Includes design, production, and field-testing of teacher- made devices. Prerequisites: None.

ECH270
Observing Young Children
1 credit(s) 1 period(s) lecture (Not offered every semester)
Introduction to techniques of observing young children. Recording methods, interpretation and use of collected information including legal and ethical implications. Prerequisites: None.

## ECH/CFS271

Arranging the Environment
1 credit(s) 1 period(s) lecture (Not offered every semester)
Exploration of the influence of the environment on the behavior of young children. Indoor and outdoor spaces considered and analysis of environments practiced. Prerequisites: None.

## ECH274

## Books and Verse For the Young Child

1 credit(s) 1 period(s) lecture (Not offered every semester)
Introduction to verse, storytelling, books and bookmaking for infants, toddlers, and preschoolers.
Information as well as storybooks considered. Prerequisites: None.

## ECH/CFS275

Literacy Development and the Young Child
1 credit(s) 1 period(s) lecture (Not offered every semester)
Literacy from birth through the early childhood years. Focus on developmentally appropriate ways to encourage speaking, listening, writing, and reading in the home and classroom. Prerequisites: None.

## ECH281

## Movement/Music for the Young Child

1 credit(s) 1 period(s) lecture (Not offered every semester)
Consideration of motor development in the toddler through the 8 -year-old and exploration of ageappropriate rhythmic, musical and creative movement methods. Prerequisites: None.

## ECH/CFS287

## Professional Development in Early Childhood Education

1 credit(s) 1 period(s) lecture (Not offered every semester)
Emerging professionalism within the field of early childhood education. Consideration of job responsibilities, rewards, ethics and current issues facing practitioners. Includes assessment and career
planning. Prerequisites: None.

## ECH288

## Community Resources and Referral

1 credit(s) 1 period(s) lecture (Not offered every semester)
Survey of current community agencies, resources, and support groups for a variety of child and family needs. Considers appropriate procedures for referral, handling of information, confidentiality and follow up. Prerequisites: None.

## ECN - Economics


#### Abstract

ECN211 ECN 2201 बயuns Macroeconomic Principles 3 credit(s) 3 period(s) lecture A descriptive analysis of the structure and functioning of the American economy. Emphasis on basic economic institutions and factors that determine national income and employment levels. Consideration given to the macroeconomic topics of national income, unemployment, inflation and monetary and fiscal policies. Prerequisites: None.


ECN212 ECN 2202 sunf<br>Microeconomic Principles<br>$\mathbf{3}$ credit(s) $\mathbf{3}$ period(s) lecture Microeconomic analysis including the theory of consumer choice, price determination, resource allocation and income distribution. Includes non-competitive market structures such as monopoly and oligopoly; and the effects of government regulation. Prerequisites: None.

## ECN263

The Economics of Natural Resources, Population and the Environment 3 credit(s) 3 period(s) lecture
Applies economic analysis to both the causes and possible remedies of the problems of environmental deterioration and natural resource depletion. Includes discussion of the economic problems of urban communities and the relationship between population and economic growth and the depletion of natural resources and environmental pollution. Prerequisites: A grade of C or better in ECN100, or ECN211, or ECN212.

## EDU - Education

## EDU220 <br> Introduction to Serving English Language Learners (ELL) <br> 3 credit(s) 3 period(s) lecture

Rationale for and current educational and legal issues for serving English Language Learners (ELL). Comparison and evaluation of various types of language educational models including Structured English Immersion (SEI), English as a Second Language (ESL) and bilingual/Dual Language Immersion (DLI). Includes SEI, ESL, and bilingual/DLI strategies. Prerequisites: None. Course Notes: Approved school- based practicum is required. EDU220 incorporates the 45-clock hour curricular framework for SEI endorsement through the Arizona Department of Education.

## EDU221

## Introduction to Education

3 credit(s) 3 period(s) lecture
Overview of the historical, political, economic, social, and philosophical factors that influence education and make it so complex. Opportunity for students to assess their interest and suitability for teaching.
Prerequisites: None. Course Note: Requires minimum of 30 hours of field experience in elementary or secondary classroom environment.

## EDU222

## Introduction to the Exceptional Learner

3 credit(s) 3 period(s) lecture
Overview of the exceptional learner with emphasis on factors relating to current practices, identification, characteristics, and educational adaptations. Issues related to mild disabilities, severe disabilities, emotional and behavioral disorders, intellectual disabilities, and students who are gifted.
Prerequisites: None. Course Notes: EDU222 requires an approved field experience.

## EDU230

## Cultural Diversity in Education

3 credit(s) 3 period(s) lecture
Examination of the relationship of cultural values to the formation of self-concept and learning styles. Examination of the role of prejudice, stereotyping, and cultural incompatibilities in education. Emphasis on teacher preparation (preservice and/or in-service) to offer an equal educational opportunity to students of all cultural groups. Prerequisites: None.

## EDU250

## Teaching and Learning in the Community College

3 credit(s) 3 period(s) lecture
The history, functions, organization and current issues in the community/junior college with emphasis on the Arizona community colleges. Includes focus on the design and practice of effective community college teaching and learning with special emphasis on the Maricopa County Community College District. Prerequisites: None.

## EDU/ENH291

## Children's Literature

3 credit(s) 3 period(s) lecture
Review of folk and modern literature from a variety of world cultures, including application of literary criteria to folk and modern literature for children. Prerequisites: None.

## EDU/HUM/STO292

The Art of Storytelling
3 credit(s) 3 period(s) lecture
Explore the art and origin of storytelling. Provide a variety of storytelling techniques, styles and exercises to enhance the delivery of telling stories. Assist in the integration and application of storytelling to the learning environment in the classroom. Prerequisites: None.

## EED - Early Education

## EED215

Early Learning: Health, Safety, Nutrition and Fitness 3 credit(s) 3 period(s) lecture

Consideration of public health issues and safety procedures within early childhood settings, serving young children birth to age eight. Overview of nutritional needs and issues of physical fitness and well-being in young children. Includes field experiences. Prerequisites: None.

## EEE - Electrical Engineering

## EEE202

## Circuits and Devices

5 credit(s) 7 period(s) lecture and lab
Introduction to circuits and devices. Component models, transient analysis, steady state analysis, Laplace transform, and active and passive filter networks. Prerequisites: A grade of C or better in PHY116 or PHY131 or permission of Instructor or Division or Department Chair. Corequisites:
MAT276 or permission of Instructor or Division or Department Chair.

## ELE - Electronic

ELE111

## Circuit Analysis I

4 credit(s) 6 period(s) lecture + lab
Direct current (DC) and Alternating current (AC) electric circuits. Ohm's law, Kirchoff's laws, series, parallel and series-parallel circuits, fundamentals of inductance and capacitance, and the transient behavior of circuits containing resistance and capacitance or resistance and inductance. Prerequisites: None. Corequisites: MAT120, or MAT121, or MAT122, or equivalent.

ELE112
Circuit Analysis II 4 credit(s) 6 period(s) lecture + lab
Alternating current (AC) and direct current (DC) circuits containing resistance and reactance. Detailed coverage of AC/DC circuit parameters, including theorems, impedance matching, and resonance. Prerequisites: A grade of C or better in ELE111.

## EMT - Emergency Medical Technology

## EMT101

## Basic Life Support/Cardiopulmonary Resuscitation (CPR) for Health Care Providers 0.5 credit(s) 0.5 period(s) lecture + lab

Designed to provide the allied healthcare provider with the knowledge and skills to perform Basic Life Support (BLS) according to current guidelines for emergency cardiovascular care (ECC). Prerequisites: None. Course Notes: EMT101 may be repeated for credit.

## EMT104

## Emergency Medical Technology

10 credit(s) 10 period(s) lecture
Designed as the Emergency Medical Technician (EMT) lecture to prepare students for scope of practice and standard of care with comprehensive assessment, diagnostic technology, patient advocacy, ethical and professional behaviors, critical thinking, decision-making, and patient management of medical and trauma emergencies and non- emergencies. Prerequisites: Appropriate score on Reading placement test to demonstrate minimum tenth grade level reading, or completion of an Associate's degree or higher from an accredited institution. Course Notes: Students must meet National Registry of EMT requirements for certification. Additional information available at nremt.org. EMT104 may be repeated for credit.

## EMT/FSC104AB

## Applied Practical Studies for Emergency Medical Technology 0.5 credit(s) 0.5 period(s) lab

Simulation of actual emergency responses, with practical application of techniques and skills covered in EMT curricula. Scenario based learning applied to the techniques of emergency medical care in accordance with national and state curriculum. Practical application of anatomy, physiology, patient assessment, and treatment of medically or traumatically compromised patients, special hazards and medical operations. Also includes patient-assisted medication administration, semi-automatic external defibrillator and blood glucose monitoring. Students operate in outside, scenario-based environments. Prerequisites: None. Corequisites: EMT104. Course Notes: EMT/FSC104AB may be repeated for credit.

## EMT104LL

## Emergency Medical Technology Practicum

2 credit(s) 3.5 period(s) lab
Designed as the simulated Emergency Medical Technician (EMT) practicum in which the student synthesizes standard of care and scope of practice with comprehensive assessment and diagnostic technology, patient advocacy, ethical and professional behaviors, critical thinking, decision-making, and patient management of medical and trauma emergencies. Provides scenario-based learning applied to the techniques of emergency medical care in accordance with national and state curriculum.
Prerequisites: A grade of C or better in EMT104 or permission of Instructor or Corequisites: EMT104. Course Notes: EMT104LL may be repeated for credit. Students must meet National Registry of EMT requirements for certification. Additional information available at nremt.org.

## EMT106

## Ambulance Operations

2 credit(s) 2 period(s) lecture + lab
Practical application of rules and regulations governing care and transport of patient. Inventory,
methods of disinfection, and charge procedures covered. Practical and defensive techniques and maintenance of the ambulance demonstrated and practiced, according to the U.S. Department of Transport (DOT) National Highway Traffic Safety Administration
(NHTSA). Prerequisites: EMT at any level of certification.

## EMT116

## Emergency Medical Communications (EMD)

## 1.5 credit(s) 1.8 period(s) lecture + lab

Designed to educate and train individuals as the emergency link among the community, health care providers, and law enforcement agencies. Comprehensive program to educate and train in procedures of communications, interrogation, assessment, and deployment. Includes interactive computer lab and scheduled observation with assignment at a dispatch center. Prerequisites or Corequisites: A grade of C or better in EMT101, or any current American Red Cross, or CPR for the Professional Rescuer, or American Heart Association Basic Life Support Health Care Provider validation.

## EMT120

## Spanish for Emergency-Care Providers

## 1 credit(s) 1 period(s) lecture

Participative course for prehospital and other emergency-care providers. Vocabulary, pronunciations, voice inflections, phrases, conversational terms, and methods of interviewing the ill or injured victim. Cultural information to facilitate approach and interaction with the victim, family, and/or significant other. Documentation of the interview content on the prehospital encounter form. Prerequisites: Certified EMT or licensed medical personnel.

## EMT165

## Pediatric Education for Prehospital Providers: Basic

$\mathbf{2}$ credit(s) $\mathbf{2 . 8 7}$ period(s) lecture + lab
An interactive, scenario-based course designed for Basic EMTs who are not yet practicing in the field. Enables these EMTs to perform a rapid assessment of sick and injured children in a variety of different circumstances. Includes use of pediatric assessment triangle, developmental differences, injury prevention, basic airway management techniques, recognition of medical emergencies such as pediatric trauma, mechanism of injury, submersion events, children with special health care needs, abuse and neglect, child and family interactions, use of specialized equipment, and special issues in pediatric transportation. Treatment to children is in accordance with recommendations of the American Academy of Pediatrics. Prerequisites: A grade of C or better in EMT104, or permission of Instructor.

## EMT200

## Refresher Course for Certified EMTs

2 credit(s) 2.7 period(s) lecture + lab
Designed to meet National and Arizona Department of Health Services (A-DHS) recertification for EMTs. Enhances the knowledge base of the Emergency Medical Technician (EMT) and reinforces basic skills competencies. Prerequisites: Current validation in Basic Life Support (BLS) Health Care Provider/Professional Rescuer or permission of Instructor. Course Notes: EMT200 may be repeated for credit.

EMT200AA
EMT Certification Renewal Challenge
0.6 credit(s) 0.6 period(s) lecture

Designed to contribute to Arizona Department of Health Services (A-DHS) Bureau of Emergency Medical Services (B-EMS) recertification requirements for Emergency Medical Technician (EMT) according to the U.S. Department of Transportation (DOT) EMT National Curriculum and the Arizona EMT Refresher Curriculum Guidelines. Prerequisites: Current validation in Basic Life Support (BLS) Health Care Provider/Professional Rescuer or proof of current registry with the National Registry of Emergency Medical Technicians (NREMT).

## EMT201

## Interactive Basic EMT Refresher

1 credit(s) 2.2 period(s) lecture + lab
Designed to contribute to Arizona Department of Health Services recertification requirements for Emergency Medical Technicians (EMT) according to the US Department of Transportation (DOT) EMT-Basic National Curriculum and the Arizona Basic EMT Refresher Curriculum Guidelines. Enhances the knowledge base of the EMT. Updates a wide variety of subjects including respiratory and cardiac emergencies, and interaction with advanced life support providers. Prerequisites: (Current EMT Basic certification in the state of Arizona or proof of current registry with the National Registry of Emergency Medical Technicians [NREMT]) and validation in Basic Life Support (BLS) Health Care Provider/Professional Rescuer.

## EMT230

## Advanced Concepts for EMTs

## 1.5 credit(s) 1.5 period(s) lecture + lab

Designed to meet Arizona Department of Health Services recertification requirements for EMTs. Enhances the knowledge base of the Emergency Medical Technician (EMT) and incorporates new information into daily practice. Updates a wide variety of subjects including medical and trauma emergencies, cardiac life support, interaction with advanced life support providers, and emergency scene management. Prerequisites: Current EMT certification in the state of Arizona.

## EMT/FSC238

## Vehicular Extrication and Patient Stabilization

## 2 credit(s) 2 period(s) lecture

Participative course designed for the Emergency Medical Technicians (EMT).
Incorporates new knowledge and skills necessary to access, extricate, and care for 1 victims of crash incidents. Provides exposure to scene management, including size-up, disentanglement, victim stabilization for single and multi-victim situations, hazardous materials incidents, integration of local emergency medical services (EMS) for patient assessment and management, and standard operating procedures to selected victim scenarios. Prerequisites: Basic EMT certification, current enrollment in EMT Basic program, nurse with emergency department experience, or law enforcement personnel, or permission of Instructor.

## EMT245

## Trauma Management I

2 credit(s) 3.5 period(s) lecture + lab
Designed to instruct prehospital care personnel in the critical skills necessary to manage the trauma victim and the emergency scene through the Incident Command System (ICS). Enhances basic emergency medical technology (EMT) skills by focusing on emergency care interventions. Provides exposure to victim assessment, initial treatment, resuscitative techniques, victim stabilization, transportation of the victim to an emergency care facility, and documentation. Prerequisites: Basic EMT certification or nurse with emergency room experience, or permission of department.

## EMT260

## Advanced Airway Management for EMTs

2 credit(s) 2 period(s) lecture + lab
Designed to instruct emergency care personnel in the critical skills necessary to establish and maintain an airway of the traumatized or medically compromised patient. Airway skills include oxygen therapy with all adjuncts, administration of pharmaceuticals via the endotracheal (ET)/ pharyngeal tracheal lumen airway (PTLA), management of the airway as a route for medications, and invasive airway i procedures. Content concurrent with Department of Transportation Guidelines and the American College of Surgeons Division on Trauma Standards of Care. Prerequisites: Certified EMT, or licensed registered nurse with emergency department experience; EMT or emergency department licensed registered nurse with Medical Control physician supervision according to Arizona Department of Health Services (A-DHS) Bureau of Emergency Medical Services (B-EMS).

## ENG - English

ENG101 ENG 1101 suñ

## First-Year Composition <br> 3 credit(s) 3 period(s) lecture

Emphasis on rhetoric and composition with a focus on expository writing and understanding writing as a process. Establishing effective college-level writing strategies through four or more writing projects comprising at least 3,000 words in total. Prerequisites: Appropriate writing placement test score, or (a grade of C or better in ENG091, or ESL097, or WAC101), or (a grade of B or better in ALT100), or (a grade of C in ALT100 and Corequisites: ENG101LL, or ENG107LL, or WAC101, or ENG100A+), or (a grade of C or better in ESL202 and Corequisites: ENG101LL, or ENG107LL, or WAC101, or ENG100A+).

ENG102 ENG 1102 sung

## First-Year Composition

## 3 credit(s) 3 period(s) lecture

Emphasis on rhetoric and composition with a focus on persuasive, research-based writing and understanding writing as a process. Developing advanced college-level writing strategies through three or more writing projects comprising at least 4,000 words in total. Prerequisites: Grade of C or better in ENG101.

ENG107

## First-Year Composition for ESL

3 credit(s) 3 period(s) lecture
Equivalent of ENG 101 for students of English as a Second Language (ESL). Emphasis on rhetoric and composition with a focus on expository writing and understanding writing as a process. Establishing effective college-level writing strategies through four or more writing projects comprising at least 3,000 words in total. Prerequisites: Appropriate writing placement test score, or (a grade of C or better in ENG091, or ESL097, or WAC101), or (a grade of B or better in ALT100), or (a grade of C in ALT100 and Corequisites: ENG101LL, or ENG107LL, or WAC101, or ENG100A+), or (a grade of C or better in ESL202 and Corequisites: ENG101LL, or ENG107LL, or WAC101, or ENG100A+).

## ENG108

## First-Year Composition for ESL <br> 3 credit(s) 3 period(s) lecture

Equivalent of ENG102 for students of English as a Second Language (ESL). Emphasis on rhetoric and composition with a focus on persuasive, research-based writing and understanding writing as a process. Developing advanced college-level writing strategies through three or more writing projects comprising at least 4,000 words in total. Prerequisites: Grade of C or better in ENG107.

## ENG111

## Technical and Professional Writing

3 credit(s) 3 period(s) lecture
Covers analyzing, planning, organizing, researching, and writing correspondence, reports, and presentations for specific work- related audiences. Includes integrating data and graphics into workrelated documents and presentations. Prerequisites: ENG101 with a grade of C, or better, or permission of Instructor.

## Reading and Writing About Literature

3 credit(s) 3 period(s) lecture
Emphasis on critical analysis of various genres of literature; includes study of necessary terminology, introduction to methods of literary criticism, and practice in interpretation and evaluation. Prerequisites: A grade of C or better in ENG102.

ENG213

## Introduction to the Study of Language

3 credit(s) 3 period(s) lecture
Study of language as code; phonetics, phonology, morphology, syntax, semantics; language acquisition; historical and socio- linguistics. Prerequisites: ENG102 or ENG111, with a grade of C or better, or permission of Instructor.

ENG215
Strategies of Academic Writing
3 credit(s) 3 period(s) lecture
Advanced course in techniques of analyzing and writing academic expository prose. Writing to be research based. Prerequisites: A grade of C or better in ENG102 or ENG111, or permission of Instructor.

## ENG216

Persuasive Writing on Public Issues
3 credit(s) 3 period(s) lecture
Advanced course in techniques of analyzing and writing persuasive arguments addressing topics of current public interest. Papers research based. Prerequisites: A grade of C or better in ENG102.

## ENG217

## Personal and Exploratory Writing

3 credit(s) $\mathbf{3}$ period(s) lecture
Using writing to explore one's self and the world one lives in; emphasis on journal writing as a source and inspiration for public writing. Prerequisites: A grade of C or better in ENG101 or ENG107 or equivalent.

## ENG235

Magazine Article Writing
3 credit(s) 3 period(s) lecture
Basic skills and techniques used by professional writers for publication in magazines. Includes analyzing markets, identifying article slant, research techniques, editing, and submission procedures. Emphasis on nonfiction. Prerequisites: None. Course Notes: ENG235 may be repeated for a total of six (6) credit hours.

## ENH - English Humanities

## ENH110

## Introduction to Literature

3 credit(s) 3 period(s) lecture
Introduction to international literature through various forms of literary expression; e.g., poetry, drama, essay, biography, autobiography, short story, and novel. Provides a global overview of literature with special emphasis on diverse cultural contributions of women, African Americans, Asian Americans, Hispanic Americans, and Native Americans. Prerequisites: None.

## ENH112

Chicano Literature
3 credit(s) 3 period(s) lecture
Introduction to the works of Mexican- American writers of the southwest. Samples poetry, fiction, and essays viewed in their relationship to American cultural heritage and to contemporary culture.
Prerequisites: None.

## ENH114

African-American Literature
3 credit(s) 3 period(s) lecture
Survey of major African-American writers from Colonial period through the present; analysis of trends and movements within African-American literary history; analysis of literary types and selected works. Prerequisites: None.

## ENH117

## Rap Literature: The Oral Tradition

3 credit(s) 3 period(s) lecture
Survey of selected rap poetry looking at the oral tradition of Africa, the Caribbean, and the United States as precursors to East Coast, West Coast, Southern, North Central, and International development of the genre. Investigation of cultural environments, historical events, competitions (the "battles"), artists' biographies, and parallel art forms as they relate to the analysis of the genre and its themes. Prerequisites: None.

## ENH190

## Introduction to US Ethnic Literature

3 credit(s) 3 period(s) lecture
Introduction to the US ethnic literatures of African Americans, Arab Americans, Asian Americans, Latinas/os, Native Americans, Mixed Race, and other emerging ethnic groups through various expressions. Examines the interconnections of the various experiences of racialized groups living in the US. Provides ethnic US literature a global context through study of the interconnections with the literatures of Africa, Asia, Latin America, and Oceania. Focus on literary production of at least four specific US ethnic groups and relevant international literatures. Prerequisites or Corequisites: ENG101 or ENG107.

ENH204

## Introduction to Contemporary Literature <br> 3 credit(s) 3 period(s) lecture

Examines the work of major writers in poetry, fiction and drama from 1945 to the present. Examines important movements that have developed within these genre since 1945. Prerequisites: None.

ENH214

## Poetry Study

3 credit(s) 3 period(s) lecture (Spring only)
Involves reading, discussing, and analyzing poetry of various forms and from selected periods.
Prerequisites: None.
ENH221
Survey of English Literature Before 1800
3 credit(s) 3 period(s) lecture (Fall only)
Emphasizes the social and political backgrounds as well as the form and content of English literature from Anglo-Saxon times to the end of the eighteenth century. Prerequisites: A grade of C or better in (ENG101 or ENG107) or equivalent.

ENH222
Survey of English Literature After 1800
3 credit(s) 3 period(s) lecture (Spring only)
Emphasizes the social and political backgrounds as well as the form and content of English literature in the nineteenth and twentieth centuries. Prerequisites: A grade of C or better in (ENG101 or ENG107) or equivalent.

## ENH230

Introduction to Shakespeare
3 credit(s) 3 period(s) lecture
Introduces Shakespeare the playwright, the sonneteer, the linguist, and the citizen of the 17 th century. Considers the major tragedies, comedies, histories, and sonnets; focuses on the use of language; and connects the writer to the time. Some emphasis on Shakespeare's influence through the centuries, noting parallels between the late 16th century and the late 20th century. Prerequisites: None.

ENH235
Survey of Gothic Literature
3 credit(s) 3 period(s) lecture
A study of the origins, common elements and characteristics, and historical development of Gothic literature with an exploration of the literary techniques and psychological aspects of the genre.
Prerequisites: None.
ENH241
American Literature Before 18603 credit(s)
3 period(s) lecture (Fall only)
Includes literature written prior to 1860 in the United States. Prerequisites: A grade of C or better in ENG101.

ENH242
American Literature After 1860
3 credit(s) 3 period(s) lecture (Spring only)
Includes literature written after 1860 in the United States. Prerequisites: None.
ENH251
Mythology

## 3 credit(s) 3 period(s) lecture

Deals with the myths and legends of civilizations with the greatest influence upon the development of the literature and culture of the English-speaking people, and compares those myths with myths from other cultures. Prerequisites: None.

## ENH253

## Contemporary Global Literature and Film

3 credit(s) 3 period(s) lecture
Characteristics of literary and cinematic mediums. Challenges of adapting literature to film. Global examination of historical, religious, socioeconomic, political, and colonial/post-colonial themes depicted in Western and non-Western literature and film (e. g., Africa, Asia, and Latin America) outside the United States. Use of narrative in each medium and how it translates various global/international perspectives and cultural assumptions. Specific genres present in literature and film. Cultural metaphors and symbols used in literature and film. Prerequisites: A grade of C or better in ENG101.

## ENH254

## Literature and Film

3 credit(s) 3 period(s) lecture
Presents works of literature and their film versions and analyzes distinguishing techniques of each medium. Prerequisites: A grade of C or better in ENG101, or ENG107, or equivalent.

## ENH255

## Contemporary U.S. Literature and Film

## 3 credit(s) 3 period(s) lecture

Strengths and weaknesses of literature and film. Challenges of adapting literature to film. Addressing racial, ethnic, gender, class and religious differences between cultures and mediums. Use of narrative in each medium and how it translates various cultural values and assumptions. Specific genres present in literature and film. Cultural metaphors and symbols used in literature and film. Prerequisites: A grade of C or better in ENG101.

## ENH256

## Shakespeare on Film

## 3 credit(s) 3 period(s) lecture

Presents cinematic versions of Shakespeare's plays and explains and analyzes how the dramatist's major tragedies, comedies, histories and romances have been presented on film. Prerequisites: None.

## ENH259

## American Indian Literature

3 credit(s) 3 period(s) lecture Contemporary American Indian forms of literary expression. Selected oral traditions of American Indians. Trends and movements within American Indian literary history. Prerequisites: None.

## ENH260

## Literature of the Southwest

3 credit(s) 3 period(s) lecture
Investigates major themes in Southwestern American literature including the Western myth, minority roles in the region's literature, control of nature versus primacy of nature, and growth. Both prose and poetry are examined with an emphasis on contemporary Southwestern writing. Prerequisites: None.

## ENH280

Topics in American Literature
3 credit(s) 3 period(s) lecture
Exploration of selected topic(s) in American Literature. Focuses on a theme, genre, era, technique, or critical approach. Includes reading and interpretation of literature from a variety of cultures within the United States. Prerequisites: A grade of C or better in (ENG101 or ENG107) or permission of Instructor. Course Note: ENH280 may be repeated for a total of nine (9) credit hours.

ENH/WST285
Contemporary Women Writers
3 credit(s) 3 period(s) lecture
Explores twentieth century literature (short stories, essays, plays, and poetry) written by women and about women. Focus on themes relevant to women's lives regardless of age, creed, or ethnic background.
Prerequisites: None.
ENH/EDU291

## Children's Literature

3 credit(s) 3 period(s) lecture
Review of folk and modern literature, including application of literary criteria to folk and modern literature for children. Prerequisites: None.

## EPS - Entrepreneurial Studies

## EPS150

## Introduction to Entrepreneurship

3 credit(s) 3 period(s) lecture
Overview of entrepreneurship. Includes the entrepreneurial process and the skills required to be successful, including starting, planning, financing, marketing, and managing a business. Prerequisites: None.

## EPS160

New Venture Creation
2 credit(s) 2 period(s) lecture
Process of starting a new venture including evaluating specific business opportunities identifying financing alternatives, and defining start-up issues. Prerequisites: None.

## EPS161

New Venture Law and Finance 3 credit(s) 3 period(s) lecture
Introduction to the principles of legalization and capitalization of a new business venture. Includes the processes required to organize, register, finance, launch and protect a business. Prerequisites: None.

## EPS162

## Introduction to Social Entrepreneurship

3 credit(s) 3 period(s) lecture
Introduction to the history, theory, and emerging activities of social entrepreneurship. Includes management skills for social entrepreneurial organizations, scaling of social impact, and social performance measurement. Emphasis on social capital, microfinance, and evaluation of social entrepreneurial opportunities. Prerequisites: None.

## EPS165

New Venture Feasibility Analysis
2 credit(s) 2 period(s) lecture
Introduction to the industry`s market and competitive structure. Includes the technical skills to develop a competitive strategy for entry into the business segment. Covers the market potential evaluation, niche identification, analysis of competition, and development of customer profiles. Also involves development of a marketing strategy and sales projections for new business ventures. Prerequisites: None.

## EPS180

Technology Business Planning
3 credit(s) 3 period(s) lecture
Fundamentals of identifying new technologies and innovations for profitable commercial feasibility. Determination of capabilities, resources, and interests of the entrepreneur. Evaluation and selection of technology opportunities. Creation of business concept and plan. Customer development and business models. Finances, venture capital and accounting. Marketing and sales. Legal formation and intellectual property. Operations and resource management. Growth, harvest and success. Prerequisites: None.

## EPS195

## Business Start-Up and Planning

## 2 credit(s) 2 period(s) lecture

Development of a feasibility approach to strategic decision making concerning new venture start-up. Includes development of a business feasibility study and a preliminary business plan. Prerequisites: None.

## ESL - English As a Second Language

ESL010
English as a Second Language I: Grammar
3 credit(s) 3 period(s) lecture
First level of English as a Second Language (ESL). Emphasis on basic conversational skills, pronunciation, vocabulary building and grammar. Some reading and sentence level writing.
Prerequisites: Appropriate ESL placement test score. Course Notes: ESL010 may be repeated for a maximum of six (6) credits. Credit (P) or no credit (Z). Standard grading available according to procedures outlined in catalog.

## ESL011

## English as a Second Language I: Listening and Speaking 3 credit(s) 3 period(s) lecture

Emphasis on listening and speaking skills involving survival skills. Asking and answering questions related to work, shopping, and personal safety. Prerequisites: Appropriate ESL placement test score or a grade of C or better in ESL002. Course Notes: ESL011 may be repeated for a maximum of six (6) credits.

## ESL012

ESL I-Writing with Oral Practice
3 credit(s) 3 period(s) lecture
Emphasis on basic conventions of writing in English. Includes introduction to the alphabet, capitalization, punctuation, and simple sentence structure. Prerequisites: Approximate ESL placement test score or permission of Instructor. Course Notes: ESL012 may be repeated for a maximum of six (6) credits.

## ESL013

Vocabulary for ESL I
1 credit(s) 1 period(s) lecture + lab
Emphasis on the acquisition of basic English vocabulary including identifying and pronouncing words related to people, medical/dental care, occupations and other activities. Prerequisites: Appropriate ESL placement test score or permission of Instructor. Course Notes: ESL013 may be repeated for a maximum of two (2) credits.

## ESL020

## English as a Second Language II: Grammar <br> 3 credit(s) 3 period(s) lecture

Second level of English as a Second Language (ESL). Continued emphasis on conversational skills, pronunciation, vocabulary building and grammar with some reading and sentence level writing.
Prerequisites: Appropriate ESL placement test score, or a grade of P or C or better in ESL010. Course Notes: ESL020 may be repeated for a maximum of six (6) credits. Credit (P) or no credit (Z). Standard grading available according to procedures outlined in catalog.

ESL021

## English as a Second Language II: Listening and Speaking

 3 credit(s) 3 period(s) lectureEmphasis on listening and speaking skills involving social exchange. Asking and answering questions, using tag questions. Practice with question-and-answer patterns. Polite questions and responses.

Prerequisites: Appropriate ESL placement test score or a grade of C or better in ESL010 or ESL011 or ESL012 or ESL016. Course Notes: ESL021 may be repeated for a maximum of six (6) credits.

## ESL022

ESL II-Writing with Oral Practice
3 credit(s) 3 period(s) lecture
Emphasis on basic writing skills, accompanied by recitation of short writings. Sentence patterns and introduction of paragraph writing. May be repeated for a maximum of six (6) credits. Prerequisites: Appropriate ESL course placement score, or a grade of C or better in ESL012, or permission of Instructor.

ESL023
Vocabulary for ESL II
1 credit(s) 1 period(s) lecture + lab
Emphasis on the acquisition of basic English vocabulary including identifying and pronouncing words related to people, medical/dental care, occupations and other activities. Prerequisites: Appropriate ESL placement test score or permission of Instructor. Course Notes: ESL023 may be repeated for a maximum of two (2) credits.

## ESL030

## English as a Second Language III: Grammar

3 credit(s) 3 period(s) lecture
Third level of English as a Second Language (ESL). Emphasis on sentence structure and paragraph building. Extensive grammar study and writing practice. Prerequisites: Appropriate ESL placement test score, or a grade of P or C or better in ESL020. Course Notes: ESL030 may be repeated for a maximum of six (6) credits. Credit (P) or no credit (Z). Standard grading available according to procedures outlined in catalog.

## ESL031

## English as a Second Language III: Listening and Speaking

## 3 credit(s) 3 period(s) lecture

Emphasis on listening and speaking skills related primarily to academic environment. Asking questions, working in small groups, using college resources, informal oral presentation. Prerequisites: Appropriate ESL placement test score or a grade of C or better in ESL020 or ESL021 or ESL022 or ESL026. Course Notes: ESL031 may be repeated for a total of six (6) credit hours.

## ESL032

## ESL III-Writing with Oral Practice

3 credit(s) 3 period(s) lecture
Emphasis on complex sentence patterns in writing and speech. Introduction to the prewriting and writing process in a college setting. May be repeated for a maximum of six (6) credits. Prerequisites:
Appropriate ESL course placement score, or a grade of C or better in ESL022, or permission of Instructor.

ESL033
Vocabulary for ESL III
1 credit(s) 1 period(s) lecture + lab
Emphasis on the acquisition of basic English vocabulary including identifying and pronouncing words related to people, medical/dental care, occupations and other activities. Prerequisites: Appropriate

ESL placement test score or permission of Instructor. Course Notes: ESL033 may be repeated for a maximum of two (2) credits.

## ESL040

## English as a Second Language IV: Grammar

3 credit(s) 3 period(s) lecture
Fourth level of English as a Second Language (ESL). Continued emphasis on sentence structure and paragraph building. Extensive grammar study and writing practice. Prerequisites: Appropriate ESL placement test score, or a grade of P or C or better in ESL030. Course Notes: ESL040 may be repeated for a maximum of six (6) credits. Credit (P) or no credit (Z). Standard grading available according to procedures outlined in catalog.

## ESL041

## English as a Second Language IV - Listening and Speaking

3 credit(s) 3 period(s) lecture
Emphasis on academic skills. Listening to lectures, notetaking, peer interaction, accessing and using media resources, formal oral presentations. Prerequisites: Appropriate ESL placement test score or a grade of C or better in ESL030 or ESL031 or ESL032 or ESL036. Course Notes: ESL041 may be repeated for a maximum of six (6) credits.

## ESL042

## ESL IV-Writing with Oral Practice

3 credit(s) 3 period(s) lecture
Emphasis on paragraph writing and oral recitation of complex sentences and paragraphs. Introduction to the prewriting and writing process for short essays. May be repeated for a maximum of six (6) credits. Prerequisites: Appropriate ESL course placement score, or a grade of C or better in ESL032, or permission of Instructor.

## ESL050

## Review Grammar For ESL

## 3 credit(s) 3 period(s) lecture

Review of grammatical concepts for ESL (English as a Second Language) students who have some previous experience in reading and writing English. Appropriate for students who want to practice sentence skills in English. May be repeated for a total of six (6) credits. Prerequisites: Appropriate ESL course placement score, or a grade of C or better in ESL040, or permission of Instructor.

## ESL050AA

## Basic Review Grammar For ESL

1 credit(s) 1 period(s) lecture + lab
Review of the use of English verbs and word placement in sentences for ESL (English as a Second Language) students who have some previous experience in reading and writing English Appropriate for students who want to practice sentence skills in English. Prerequisites: Appropriate ESL placement test score, or a grade of C or better in ESL010, or permission of Instructor. Course Notes: ESL050AA may be repeated for a total of two (2) credit hours.

ESL050AB
Intermediate Review Grammar For ESL
1 credit(s) 1 period(s) lecture + lab
Review of auxiliary verbs and the comparative and superlative for ESL (English as a Second

Language) students who have some previous experience in reading and writing English Appropriate for students who want to practice sentence skills in English. Prerequisites: Appropriate ESL placement test score, or a grade of C or better in ESL020, or permission of Instructor. Course Notes: ESL050AB may be repeated for a total of two (2) credit hours.

## ESL050AC

## Advanced Review Grammar For ESL

1 credit(s) 1 period(s) lecture + lab
Review of verbals and gerunds for ESL (English as a Second Language) students who have some previous experience in reading and writing English Appropriate for students who want to practice sentence skills in English. Prerequisites: Appropriate ESL placement test score, or a grade of C or better in ESL030, or permission of Instructor. Course Notes: ESL050AC may be repeated for a total of two (2) credit hours.

## ESL051

## Pronunciation Improvement for ESL Speakers

3 credit(s) 3 period(s) lecture
Individualized pronunciation practice and drills for English as a Second Language (ESL) speakers. Prerequisites: Appropriate ESL course placement score, or a grade of C or better in (ESL020 or ESL021 or ESL022 or ESL026), or permission of Instructor. Course Notes: ESL051 may be repeated for a total of six (6) credits.

## ESL054

## American Culture

3 credit(s) 3 period(s) lecture
Reading and writing about American culture including history, institutions and sports, and entertainment. Prerequisites: Appropriate ESL placement test score, or a grade of C or better in ESL040 or ESL046 or permission of Instructor. Course Notes: ESL054 may be repeated for a total of six (6) credit hours.

## ESL054AA

American Culture: History
1 credit(s) 1 period(s) lecture + lab
Reading and writing about American history. Prerequisites: Appropriate ESL placement test score or a grade of C or better in ESL040 or ESL046 or permission of Instructor. Course Notes: ESL054AA may be repeated for a total of two (2) credit hours.

## ESL054AB

## American Culture: Institutions and Customs

## 1 credit(s) 1 period(s) lecture + lab

Reading and writing about American cultural institutions and customs. Prerequisites: Appropriate ESL placement test score or a grade of C or better in ESL040 or ESL046 or permission of Instructor. Course Notes: ESL054AB may be repeated for a total of two (2) credit hours.

## ESL054AC

American Culture: Sports and Entertainment
1 credit(s) 1 period(s) lecture + lab
Reading and writing about American sports and entertainment. Prerequisites: Appropriate ESL placement test score or a grade of C or better in ESL040 or ESL046, or permission of Instructor.

Course Notes: ESL054AC may be repeated for a total of two (2) credit hours.

## ESL071

Advanced Pronunciation and Oral Reading for ESL 3 credit(s) 3 period(s) lecture
Pronunciation practice and review, spelling of English sounds, and oral reading for stress and intonation patterns in English. Prerequisites: A grade of C or better in ESL051, or permission of Instructor. Course Note: May be repeated for a total of six (6) credit hours.

ESL087
Preparatory Academic Writing II for ESL
3 credit(s) 3 period(s) lecture
Emphasizes preparation for college-level composition and related reading tasks with a focus on critical writing, reading, and thinking skills and processes. Prerequisites: Appropriate writing placement test score, or grade of C or better in ESL077 or ENG071, or permission of Department or Division.

ESL097
Preparatory Academic Writing III for ESL
3 credit(s) 3 period(s) lecture
Emphasizes preparation for first year composition with a focus on critical writing, reading, and thinking skills and processes at an increased level of academic complexity. Prerequisites: Appropriate writing placement score, or a grade of C or better in ESL087 or ENG081, or permission of Department or Division.

## FMP - Film and Media Production

## FMP114

## Audio Production

3 credit(s) 5 period(s) lecture and lab
Focus on audio in the production of media projects. Emphasis on location-based, studio and sound room for corporate, cable and broadcast applications. Concepts covered include: microphones and audio recording equipment; audio production techniques using shotgun microphones or lavaliers while in the field; audio recording in the sound room, multi-track recording, and mixdown; audio editing using a non-linear computer program; music libraries; sound effects; and editing in audio postproduction. Prerequisites: A grade of C or better in FMP105 or FMP108.

## FMT - Film, Media, and Theatre

## FMT100

Introduction to Production

3 credit(s) 3 period(s) lecture + lab
Introduction to the major production components of a multimedia project. Prerequisites: None.

## FMT/MUC120

## Introduction to Sound Design for Film and Video

3 credit(s) 3 period(s) lecture
Basic principles of recording and mixing sound for film and video. Includes voice over, automatic dialog replacement (ADR), foley, ambience, special effects and music. Emphasis on analog and digital recording techniques in the field as well as in a controlled environment. Prerequisites: A grade of C or better in (FMT100 and FMT136) or permission of Instructor.

## FMT/MUC220

## Advanced Sound Design for Film and Video

3 credit(s) 5 period(s) lecture and lab
Explores techniques and advanced applications used in designing sound using original student footage on a non- linear editing system. Prerequisites: A grade of C or better in FMT/MTC120 or permission of Instructor.

## FMT242

Professional Portfolio for Film, TV, and Media 2 credit(s) 4 period(s) lecture + lab
Explores techniques and applications used in editing an individual project on an editing system. Prerequisites: A grade of C or better in FMT241 or permission of Instructor. Course Notes: Students must have previously created production footage from other course work or independent work for use in the class projects. FMT242 may be repeated for a total of six (6) credit hours.

## FMT283

Advanced Non-Linear Editing Techniques
4 credit(s) 6 period(s) lecture + lab
Explores techniques and advanced applications used in creating and editing an advanced project on a non-linear editing system. Prerequisites: A grade of C or better in FMT241 or permission of Instructor.

## FON - Food and Nutrition

## FON100

## Introductory Nutrition

3 credit(s) 3 period(s) lecture
Introduction to the science of food and human nutrition. Current sustainable dietary recommendations and applications for maximizing well-being and minimizing risk of chronic disease throughout the life cycle. An overview of the nutrients, emphasizing the importance of energy and fluid balance, and optimal functioning of the digestive system. Understanding factors that influence food intake in different cultures. Methods for evaluating credibility of nutrition claims, a focus on modern food safety and technology practices, and a worldview of nutrition are included. Emphasis is on personal dietary behavior change for a holistic life of wellness. Prerequisites: None.

## FON104

## Certification in Food Service Safety and Sanitation 1 credit(s) 1 period(s) lecture

Preparation for and certification in a national food sanitation and safety program. Emphasis on food from purchasing, receiving, and storing to preparation, holding, and serving. Focuses on safe and sanitary food service facilities and equipment, employee habits and personal hygiene, and role of management in safety and sanitation. Includes time-temperature principles, foodborne illnesses, pest control, accident prevention, standards for cleaning and sanitizing, and regional regulations and standards. Prerequisites: None.

## FON142AB

## Science of Food

3 credit(s) 5 period(s) lecture + lab
Exploration and Application of Scientific Principles of Food; experiences with ingredient functionality and application in cooking techniques. Prerequisites: None.

## FON241

## Principles of Human Nutrition

3 credit(s) 3 period(s) lecture
Scientific principles of human nutrition. Emphasis on scientific literacy and the study of nutrients for disease prevention. Includes macronutrients and micronutrients, human nutrient metabolism and nutrition's role in the health of the human body throughout the life cycle. Addresses nutrition principles for prevention of nutrition-related health conditions. Prerequisites: None.

FON241LL
Principles of Human Nutrition Laboratory
1 credit(s) 3 period(s) lab
Self-evaluative laboratory experience to complement FON241, Principles of Human Nutrition using anthropometric, biochemical, clinical, and dietary analysis. Includes the use of qualitative and quantitative methodology to determine nutritional status and evaluate methodological applications. Prerequisites: A grade of C or better in FON241 or Corequisites: FON241.

## FOR - Forensic Science

## FOR105

Forensic Science: Physical Evidence

4 credit(s) 6 period(s) lecture + lab
Scientific analysis and examination of physical evidence for forensic purposes. Covers fingerprints, shoe prints, tool marks, glass, soil and mineral evidence, firearms identification, paint chips, and arson and explosive evidence. Includes the history of forensic science, functions of the crime lab and criminalist career specialties. Prerequisites: None.

## FOR106

## Forensic Science: Biological Evidence 4 credit(s) 6 period(s) lecture + lab

Scientific analysis and examination of biological evidence for forensic purposes. Covers blood, bloodstains, other biological fluids and stains, hair, DNA, toxicological evidence, controlled substances and alcohol. Includes the history of forensic science, functions of the crime lab, and criminalist career specialties. Prerequisites: None.

## FOR/ASM275

## Forensic Anthropology

4 credit(s) 5 period(s) lecture + lab
Survey of the role of forensic anthropologists, from the crime scene to the courtroom. Course focuses on how skeletal analysis can aid in medicolegal investigations, especially by identifying aspects of the life history of unknown individuals and by reconstructing events that took place at crime scenes. Covers both the legal aspects of forensic practice and the underlying biological basis for evidence obtained from skeletal remains. Examines applications of forensic anthropology in mass disasters, human rights investigations, and the deciphering of historic cases. Lab activities designed to illustrate techniques and principles central to the discipline. Prerequisites: None.

## FOR286

Principles of Forensic Science
4 credit(s) 7 period(s) lecture and lab
This course examines the diverse disciplines and techniques used by forensic scientists in the major sections recognized by the American Academy of Forensic Sciences (AAFS), which include anthropology, criminalistics, digital and multimedia services, general, engineering and applied sciences, jurisprudence, odontology, pathology/biology, psychiatry, and behavioral science, questioned documents and toxicology. Students will participate in laboratory activities that demonstrate best practices and applications in these disciplines, including ethical practices and experiences in case reporting and providing expert testimony. Prerequisites: A grade of C or better in (BIO181 or BIO181XT) and [(CHM150 or CHM151) and CHM151LL], or CHM150AA, or CHM151AA, or permission of the Instructor, or Department or Division Chair.

## FRE - French

## FRE101 FRE 1101 suñ

## Elementary French I

4 credit(s) 4 period(s) lecture
Basic grammar, pronunciation and vocabulary of the French language. Includes the study of French culture, practice of listening, speaking, reading and writing skills. Prerequisites: None.

FRE102 FRE 1102 suns
Elementary French II
4 credit(s) 4 period(s) lecture
Continued study of grammar and vocabulary of the French language along with the study of French culture. Emphasis on speaking, listening, reading and writing skills. Prerequisites: A grade of C or better in FRE101, or FRE101AA, or permission of Department or Division. Completion of prerequisites within the last three years is required.

## FSC - Fire Science Technology

## FSC101

## Introduction to Fire Service Selection and Entry <br> 4 credit(s) 5 period(s) lecture + lab

Overview of the application and selection processes used by various fire departments and fire service organizations. Focus on the skills and abilities required for entry-level positions in the fire department, including oral and written communication skills, mathematical and mechanical skills, problem-solving skills, and physical agility and stamina. Elements of fire service culture and their effects on personal growth and interpersonal relationships. Major components of written application processes, requirements, preparation of resumes and their effect on employment prospects. Preparation for the interview to include communications skills, mental preparation techniques, behaviors, and the importance of the interview in the pre- employment process. Prerequisites: None.

## FSC102

## Fire Department Operations

11 credit(s) 19.6 period(s) lecture + lab
Introductory fire science course primarily designed for the fire department recruit. Includes firefighting skills, equipment, and administrative policies, fire department operations, personnel policies, and International Fire Service Accreditation Congress Practical Skills Testing. Satisfies minimum standards for certification testing set forth by the current Arizona State Training and Certifying Authority. Prerequisites: A grade of C or better in FSC105, FSC130, and permission of Instructor. Corequisites: (FSC134 or FSC234) and FSC174.

## FSC/EMT104AB

## Applied Practical Studies for Emergency Medical Technology <br> 0.5 credit(s) 0.5 period(s) lab

Simulation of actual emergency responses, with practical application of techniques and skills covered in EMT curricula. Scenario based learning applied to the techniques of emergency medical care in accordance with national and state curriculum. Practical application of anatomy, physiology, patient assessment, and treatment of medically or traumatically compromised patients, special hazards and medical operations. Also includes patient-assisted medication administration, semi-automatic external defibrillator and blood glucose monitoring. Students operate in outside, scenario-based environments. Prerequisites: None. Corequisites: EMT104. Course Notes: EMT/FSC104AB may be repeated for credit.

## FSC105

## Hazardous Materials Awareness and Operations

3 credit(s) 3 period(s) lecture + lab
Basic methods of recognition and identification based upon the chemical and physical properties of hazardous materials; basic safety procedures when utilizing specific types of protective clothing and equipment; basic tactical information relating to scene management. Satisfies minimum standards for certification testing set forth by the current ProBoard and/or Arizona State Training and Certifying Authority. Prerequisites: None.

## FSC106

Introduction to Fire Protection
3 credit(s) 3 period(s) lecture
History and evaluation of fire department organization. Role of the fire service in the community.

Responsibilities of the fire administrator including organization, departmental functions, interdepartmental relationships, management of buildings and equipment; techniques of firefighting. Also includes emergency medical services and fire prevention. Prerequisites: None.

## FSC108

## Fundamentals of Fire Prevention

3 credit(s) 3 period(s) lecture
Fundamentals of fire prevention. Includes techniques, procedures, regulations, and enforcement. Also includes discussion of hazards in ordinary and special occupancies. Field trips and lectures from industry also included. Prerequisites: None.

## FSC112PS

## Public Safety Emergency Telecommunications

3 credit(s) 3 period(s) lecture + lab
In-depth coverage of established techniques and procedures for handling routine and emergency public safety telephone calls and radio (contact) communications. Nationally recognized procedures for processing 9-1-1 emergency calls, field unit safety, injury scenarios, and demonstrating positive public relations. Fundamental skills and responsibilities for fire, emergency medical, and law enforcement complaint report processing as well as federal laws regarding proper processing, retention, and dissemination of security information. Definitions of terms unique to fire suppression, emergency medical, and law enforcement situations common within the public safety sector. Prerequisites: None.

## FSC113

Introduction to Fire Suppression
3 credit(s) 4 period(s) lecture and lab Introduction to the characteristics and behavior of fire, fire hazard properties of ordinary materials, extinguishing agents, firefighter safety fire suppression organization and equipment, and basic firefighting tactics. Prerequisites: None.

## FSC114

## Hazardous Materials First on the Scene/ Awareness Level <br> 0.5 credit(s) 0.5 period(s) lecture

Designed to assist first responders involved in potential hazardous materials incident. Provides an overview of capabilities and limitations of first responders in the recognition and detection of hazardous materials, safety considerations, and pre- emergency planning. Prerequisites: None.

## FSC117

## Fire Apparatus

## 3 credit(s) 3 period(s) lecture

Principles of care, maintenance, and operation of fire apparatus and pumps. Includes pump construction and accessories, pumping techniques, power development, and transmission. Driving, troubleshooting, and producing effective fire streams. Prerequisites: None.

## FSC118

## Fire Hydraulics

3 credit(s) 3 period(s) lecture
Review of basic mathematics. Hydraulic laws and formulas as applied to the fire service. Application of formulas and mental calculations to hydraulic problems, water supply variables, and discharge requirements for pumpers. Prerequisites: None.

## FSC119

## Introduction Fire Service Ethics

3 credit(s) 3 period(s) lecture
Ethical issues, standards, and philosophical consideration of moral problems encountered in fire service. Ethical responsibility of fire service personnel and those they serve. Prerequisites: None.

## FSC131

Introduction to Urban Technical Rescue
3 credit(s) 3 period(s) lecture + lab
Practical application of safe rescue practices for urban technical rescue. Includes ropes and rope systems, trench rescue, confined- space rescue, swiftwater rescue, and rescue from collapsed structures. Prerequisites: None.

## FSC134

Fitness and Conditioning for Firefighters
3 credit(s) 4.6 period(s) lecture + lab
Overview of all aspects of fitness for current and prospective firefighters. Includes physical and mental aspects of performance for optimal achievement on fire department agility tests and firefighting tasks; individual conditioning strategies, nutritional guidelines, protective clothing concepts, and basic exercise principles.Pre- employment, evaluation, and lifelong fitness and conditioning. Prerequisites: None.

## FSC/EMT136

Women Firefighter Preparation
2 credit(s) $\mathbf{2 . 8 7}$ period(s) lecture + lab
Designed for women firefighting candidates. Includes firefighting techniques and procedure, physical/mental conditioning, health concerns, occupational opportunities, and mentorship programs. Prerequisites or Corequisites: A grade of C or better in FSC134 or permission of Instructor.

## FSC/AJS139

## Emergency Response to Terrorism <br> 3 credit(s) 3 period(s) lecture

Fundamentals of emergency response to suspected terrorist events. Historical perspective of terrorist activities and methods by which responders can identify and protect themselves and the public from these threats. Coordination of responding agencies. Prerequisites: None.

## FSC/AJS147

## Emergency Preparedness

## 3 credit(s) 3 period(s) lecture

Emergency preparedness related to natural and manmade disasters. Planning concepts and the planning process; awareness and education programs and strategies for the general community as well as business and industries. Prerequisites: None.

## FSC/AJS148

## Fundamentals of Emergency Management <br> 3 credit(s) 3 period(s) lecture

Emergency management systems including career opportunities, function, tasks and responsibilities of the emergency management program manager, role of the emergency manager in mitigation, preparedness, response, and recovery. Past civil defense and current emergency management systems
since evolution from World War II. Prerequisites: None.

## FSC/AJS149

## Hazard Mitigation

3 credit(s) 3 period(s) lecture
Knowledge and skills required to develop programs to reduce losses from future disasters, emergencies, and other extreme events caused by natural and manmade hazards. Prerequisites: None.

## FSC152

## Engine Company Officer

1 credit(s) 1 period(s) lecture
Overview of all aspects of engine company operations including the activities and responsibilities performed by the captain as well as mechanisms for developing a personal supervisory style. Designed for the aspiring company officer or anyone having the opportunity for the role of a company officer.
Prerequisites: None.

## FSC202

## Supervisory Training for Firefighters

3 credit(s) 3 period(s) lecture
Administrative methods applied to the fire service, departmental organization, and personnel management. Includes fire alarm signaling systems, fire service planning, and relationships with other city departments. Prerequisites: None.

## FSC204

## Firefighting Tactics and Strategy

3 credit(s) 3 period(s) lecture
Methods of coordinating personnel, equipment, and apparatus on the fireground. Practical methods of controlling and extinguishing structural and other types of fires. Includes simulation exercises.
Prerequisites: A grade of C or better in FSC113 or permission of Instructor or current employment as a firefighter and/or Firefighter I and II Certification and/or related experience as determined by the Program Director.

## FSC205

## Command Strategies for Major Emergencies

3 credit(s) 3 period(s) lecture
Effective methods of managing major emergency incidents including multiple alarm structural fires, high rise fires, major brush fires, complex hazardous materials incidents and multi-casualty medical incidents. Includes incidents that require the commitment of resources based on a transitional situation and/or managing the effective interaction between numerous agencies to achieve control. Prerequisites: A grade of C or better in FSC204.

## FSC208

## Firefighter Safety and Building Construction

3 credit(s) 3 period(s) lecture
Actions necessary to provide for the safety of firefighters operating on the fireground. Effects that fire and heat may have on various types of building construction resulting in the loss of structural integrity. Includes signs and symptoms of structural damage. Prerequisites: A grade of C or better in FSC113 or permission of Instructor or current employment as a firefighter and/ or Firefighter I and II Certification and/or related experience as determined by the Program Director.

## FSC209

## Fire Investigation I

3 credit(s) 3 period(s) lecture
Methods of determining point of fire origin, path of fire travel, and fire cause. Includes recognizing and preserving evidence; interviewing witnesses; arson laws and types of arson fires; and court testimony, reports, and records. Prerequisites: None.

## FSC214

## Human Resource Management in Fire Service

3 credit(s) 3 period(s) lecture Management of fire service personnel functions. Includes selection procedures, employee discipline, performance ratings, elements of supervision. Labor relations and related personnel responsibilities. Prerequisites: A grade of C or better in FSC202 or four years in the fire service.

## FSC215

## Customer Service in the Public Sector <br> 3 credit(s) 3 period(s) lecture <br> Examines the personal and practical skills needed to enhance customer service in the public sector with an emphasis on application, basic management requirements, and training. Prerequisites: None.

FSC221

## Ladder Company Officer

1 credit(s) 1 period(s) lecture
Overview of all aspects of ladder company operations including activities, expectations, and responsibilities required of the ladder captain. Designed for the company officer who aspires to the role of ladder company officer. Prerequisites: None.

## FSC/EMT238

## Vehicular Extrication and Patient Stabilization

2 credit(s) 2 period(s) lecture Participative course designed for the Emergency Medical Technicians (EMT). Incorporates new knowledge and skills necessary to access, extricate, and care for victims of crash incidents. Provides exposure to scene management, including size-up, disentanglement, victim stabilization for single and multi-victim situations, hazardous materials incidents, integration of local emergency medical services (EMS) for patient assessment and management, and standard operating procedures to selected victim scenarios. Prerequisites: Basic EMT certification, current enrollment in EMT Basic program, nurse with emergency department experience, or law enforcement personnel, or permission of Instructor.

## FSC/AJS/EMT258

## Victimology and Crisis Management in Public Safety

3 credit(s) 3 period(s) lecture
Victimology, the criminal justice system, techniques of crisis intervention and management, and the importance of a multicultural and global perspective. Includes violent crimes, sexual assault, family violence, post-traumatic stress disorder, the role of substance abuse, developing effective coping skills of victims and responders, appropriate community resources, and the cultural responsiveness of the justice system. Prerequisites: None.

FSC/AJS276

## Terrorism Liaison

$\mathbf{4}$ credit(s) $\mathbf{4}$ period(s) lecture + lab
Provides knowledge and skills required for the Terrorism Liaison Officer (TLO) role to coordinate and communicate with various fire, police, and military agencies in managing threat vulnerability and other emergency disasters. Prerequisites: Permission of Program Director. Course Note: FSC/AJS276 is not open to the public.

## FSC/AJS277

## Threat Vulnerability Assessment

1 credit(s) 1 period(s) lecture + lab
Provides a historical perspective of threats and the activities and methods used by first responders to identify and mitigate future threats. Introduces and examines threat vulnerability of critical infrastructure within jurisdictions. Provides assessment techniques for responding agencies. Prerequisites: Permission of Program Director. Course Note: FSC/AJS277 is not open to the public.

## FSC/AJS278

## Hostile Intent and Intervention Training

$\mathbf{2}$ credit(s) $\mathbf{2}$ period(s) lecture + lab Provides knowledge and skills required to detect and anticipate terrorist activities as a member of a Hostile Intent and Intervention Team (HIIT). Prerequisites: Permission of Program Director. Course Note: FSC/ AJS278 is not open to the public.

## FSC/AJS279

## Field Intelligence Team Training

3 credit(s) 3 period(s) lecture + lab
Provides knowledge and skills required for situational awareness of suspicious activities and the deployment of first responders for mitigation and investigation for the Field Intelligence Team (FIT). Prerequisites: Permission of Program Director. Course Note: FSC/AJS279 is not open to the public.

## FSC/AJS280

## Terrorism Hazmat First Responder Training 4 credit(s) 4 period(s) lecture + lab

Provides knowledge and skills to understand the chemistry of reactive and unstable hazardous materials, the toxicology of dangerous chemicals, and the measures taken to protect the safety of responders, the community, and the environment of chemical accidents. Also includes an introduction to field sampling of unknown substances for the Field Intelligence Team (FIT) and the Hostile Intent and Intervention Team (HIIT). Prerequisites: Permission of Program Director. Course Note: FSC/ AJS280 is not open to the public.

## FYE - First Year Experience

FYE101

## Introduction to College, Career and Personal Success

1 credit(s) 1 period(s) lecture
Focus on student success through exploration of academic, career and life skills. Includes study of goalsetting/success strategies, academic mindset and financial literacy. Develop an education/career plan utilizing career assessments and other college resources. Prerequisites: None.

FYE103
Exploration of College, Career and Personal Success
3 credit(s) 3 period(s) lecture
Focus on student success through exploration of academic, career, and life skills. Includes study of goalsetting/success strategies, academic mindset, interpersonal skills, financial literacy, self-care strategies, diverse perspectives, and campus tools and resources. Develop an education/career plan utilizing career assessments and other college resources. Prerequisites: None.

## GBS - General Business

GBS103
Principles of Banking
3 credit(s) 3 period(s) lecture
History, characteristics and significance of American banking system, includes types of accounts, banking services and the relationship of commercial banks to their depositors. Prerequisites: None.

## GBS110

## Human Relations in Business and Industry

3 credit(s) 3 period(s) lecture
Exploration of fundamental theories and concepts of human relations in business and industry. Particular emphasis is placed on developing effective interpersonal relationships and leadership skills within an organization. Prerequisites: None.

## GBS120

Workplace Communication Skills
3 credit(s) 3 period(s) lecture + lab
Reviews planning, organization, development, and evaluation of written and oral communication in business settings, including informative and persuasive messages. Prerequisites: None.

GBS126
Writing Resumes
1 credit(s) 1.7 period(s) lecture + lab
Planning, organizing, and writing a professional resume. Focus on presentation skills including format and language. Prerequisites: None.

GBS131

## Business Calculations

3 credit(s) 3 period(s) lecture
Review of basic arithmetic and application of mathematics to business problems, includes percentage, interest, discount, and markups. Prerequisites: None.

GBS132
Personal and Family Financial Security
3 credit(s) 3 period(s) lecture
Principles and practices of personal and family financial planning, includes savings, budgeting, credit, buying versus renting, and general principles of consumerism. Prerequisites: None. Cross-References: HEC132.

GBS151
Introduction to Business
3 credit(s) 3 period(s) lecture
Characteristics and activities of current local, national, and international business. An overview of economics, marketing, management and finance. Prerequisites: None.

GBS205
Legal, Ethical, and Regulatory Issues in Business
3 credit(s) 3 period(s) lecture

Legal theories, ethical issues and regulatory climate affecting business policies and decisions. Prerequisites: None.

## GBS206

Business Law (UCC)

## 3 credit(s) 3 period(s) lecture

Legal and ethical aspects of contracts, sales, commercial paper, secured transactions, documents of title, letter of credit, bank deposits, and collections. Prerequisites: None.

## GBS207

## Business Law (General Corporate)

## 3 credit(s) 3 period(s) lecture

Legal and ethical aspects of agency, partnerships, corporations, bankruptcy, antitrust, securities, and other regulations of business. Prerequisites: None.

GBS220
Quantitative Methods in Business
3 credit(s) 3 period(s) lecture
Business applications of quantitative optimization methods in operations management decisions.
Prerequisites: (A grade of C or better in MAT150 or MAT151 or MAT152) or satisfactory District math placement.

## 

Business Statistics

## 3 credit(s) 3 period(s) lecture

Business applications of descriptive and inferential statistics, measurement of relationships, and statistical process management. Includes the use of spreadsheet software for business statistical analysis. Prerequisites: A grade of C or better in GBS220 or MAT217 or MAT218.

GBS233

## Business Communication

3 credit(s) 3 period(s) lecture
Internal and external business communications, including verbal and nonverbal techniques.
Prerequisites: ENG101 or ENG107 with grade of C or better, or permission of department/division.

## GBS261

## Investments I

## 3 credit(s) 3 period(s) lecture

Evaluation of various investment forms including study of inflation, taxation, government securities, stocks and bonds, real estate and retirement plans. Securities industry knowledge and skills for individuals to prepare for careers in Financial Services. Includes capital markets, types of products and their risks, trading, customer accounts, prohibited activities, and regulatory agencies and their functions. Helps to prepare students for the Financial Industry Regulatory Authority (FINRA) Securities Industry Essentials (SIE) Examination required for entry-level positions in the security industry. Prerequisites: None. Corequisites: Concurrent enrollment in GBS261LL recommended but not required. Course Notes: Students interested in taking the Financial Industry Regulatory Authority (FINRA) Securities Industry Essentials (SIE) Examination should also enroll in the GBS261LL Securities Industry Essentials (SIE) Exam Prep course.

## GBS261LL

Securities Industry Essentials (SIE) Exam Prep
1 credit(s) 1 period(s) lecture + lab
Helps to prepare students for the Financial Industry Regulatory Authority (FINRA) Securities Industry Essentials (SIE) Examination required for prospective securities industry professionals. Focuses on reviewing key concepts, practicing skills, and preparing to successfully demonstrate existing knowledge on the SIE certification exam. The course is designed to provide an overview of exam topics and study and test-taking strategies. It also will include structured study time, group discussions, and the use of practice exams to assess test readiness. Prerequisites: None. Corequisites: Concurrent enrollment in GBS261 recommended but not required. Course Notes: GBS261 is recommended for students who are not already employed in the financial services industry and need more in-depth content related to the SIE exam.

GBS270AA

## Business Internship

1 credit(s) 1 period(s) lab
General business work experience in a business or industry. Eighty hours of designated work per credit per semester. Maximum of 3 credits allowed. Prerequisites: Permission of Department.

## GBS270AB

## Business Internship

2 credit(s) 2 period(s) lab
General business work experience in a business or industry. Eighty hours of designated work per credit totaling 160 hours per semester. Maximum of 3 credits allowed. Prerequisites: Permission of Department.

## GBS294

Consumer Credit
3 credit(s) 3 period(s) lecture
Consumer lending by financial institutions.
Prerequisites: None.
GBS298AA-AC

## Special Projects

## $\mathbf{1 - 3}$ credit(s) 1-3 period(s) lab

Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance.
Professional-type facilities and equipment are made available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development.
Prerequisites: None.

## GCU - Cultural Geography

GCU102
Introduction to Human Geography
3 credit(s) 3 period(s) lecture
Systematic study of human use of the earth. Spatial organization of economic, social, political, and perceptual environments. Prerequisites: None.

## GCU/POS113

United States and Arizona Social Studies
3 credit(s) 3 period(s) lecture
Overview of government, history, and geography of the United States and Arizona. Includes the relationship of government to the United States economic system as well as the influences and developments that have shaped U.S. and Arizona history. Also covers geographical systems, regions, and study techniques. Prerequisites: None.

## GCU121

## World Geography I: Eastern Hemisphere

3 credit(s) 3 period(s) lecture
Description and analysis of spatial variations in culture, social, economic, and political phenomena in major world regions. Emphasis on the major cultural realms of Europe, North Africa, and Asia.
Prerequisites: None.

## GCU122

World Geography II: Western Hemisphere
3 credit(s) 3 period(s) lecture
Description and analysis of variations in social, economic, and political phenomena in major world regions. Emphasis on Sub- Saharan Africa, Latin America, and Anglo America. Prerequisites: None.

## GCU221

## Arizona Geography

3 credit(s) 3 period(s) lecture
The historical to modern development of Arizona. The interplay between the physical, cultural and economic factors affecting Arizona today. Prerequisites: None.

## GIS - Geographic Information Science

GIS205

## Geographic Information Technologies

3 credit(s) 3 period(s) lecture
Introduces modern geographic information technologies, including cartography, Geographic Information System (GIS), remote sensing, global positioning systems, and statistical analyses. Prerequisites: None.

GIS211
Geographic Information Science I
4 credit(s) 4 period(s) lecture
Introduces students to digital map creation including vector and raster data, map elements, and design, symbology, and the geo database using Environmental Systems Research Institute (ESRI) desktop and online mapping environments. Prerequisites: A grade of C or better in GIS205 or permission of Instructor.

## GLG - Geology

GLG101 GLG 1101 Sunim

## Intro to Geology I - Physical Lecture

3 credit(s) 3 period(s) lecture
Introduction to Earth's materials, surface and internal geologic processes, plate tectonics and geologic time. Prerequisites: None. Course Notes: Students may receive credit for only one of the following: GLG101 or GLG101IN.

GLG102 GLG 1102 sunim
Intro to Geology II - Historical Lecture
3 credit(s) 3 period(s) lecture
The origin and history of the Earth, its dynamic geographic and climatic changes. Evolution and sequence of life recorded in the fossil record; tectonic evolution of major continents through time.
Prerequisites: None. Course Notes: Students may receive credit for only one of the following: GLG102 or GLG102IN.

## GLG103 GLG 1101 sunve

## Intro to Geology I - Physical Lab

1 credit(s) 3 period(s) lab
Includes practical experience in rock and mineral identification, topographic maps, and applied problems in geology. Prerequisites: None. Course Notes: May accompany GLG101. Students may receive credit for only one of the following: GLG103 or GLG101IN.

GLG104 GLG 1104 बuns
Intro to Geology II - Historical Lab
1 credit(s) 3 period(s) lab
The study of minerals, rocks, fossils, geologic maps and structures. Prerequisites: None. Course Notes: May accompany GLG102. Students may receive credit for only one of the following: GLG104 or GLG102IN.

## GLG105

## Introduction to Planetary Science

4 credit(s) 6 period(s) lecture and lab
A survey of solar system objects and their geologic evolution, surfaces, interiors, and atmospheres, and the methods used to study them; weekly laboratory for data analysis and experiments; possible weekend field trip. Prerequisites: None.

## GLG/AST106

## Life in the Universe

4 credit(s) 6 period(s) lecture and lab Introduction to the search for life in the universe for the nonscience major. Earth's location in space and time, nature of life, light and the spectrum, origin and history of the universe, origin of life on Earth and the possibility of life on other planets.
Prerequisites: A grade of C or better in MAT090, MAT091, or MAT092, or completion of higher-level mathematics course, or satisfactory placement.

GLG/AST107
Life in the Universe Laboratory
1 credit(s) 3 period(s) lab

Astronomy, Biology, and Planetary Science laboratory. Prerequisites: A grade of C or better in GLG/AST106 and permission of Instructor or Department or Division. Course Notes: GLG107 is a legacy course intended for those students who have previously completed the corresponding lecture course. Current MCCCD students should enroll in GLG106 only.

## GLG110

## Geological Disasters and the Environment

3 credit(s) 3 period(s) lecture
Acquaints students with the use and importance of geological studies as they apply to the interactions between people and the earth. Includes geological processes and hazards such as earthquakes, volcanoes, floods and landslides. Examines environmental impact and use of mineral and energy resources.
Prerequisites: None. Course Notes: Students may receive credit for only one of the following: GLG110 or GLG110IN.

## GLG111

Geological Disasters and the Environment Lab
1 credit(s) 3 period(s) lab
Introduction to geological processes and concepts. Application of basic geologic knowledge to evaluate, interpret and propose solutions for a variety of current and past geology-related environmental disasters and hazards. Prerequisites: None. Course Notes: May accompany GLG110. Students may receive credit for only one of the following: GLG111 or GLG110IN.

## GLG121

## Geology of the Grand Canyon

1 credit(s) 2 period(s) lab
Introduction to the physiography and geology of the Grand Canyon. Includes a hiking field trip to the Grand Canyon. Prerequisites: None. GLG103 suggested but not required.

## GLG140

Introduction to Oceanography
3 credit(s) 3 period(s) lecture
Investigates the marine environment in terms of basic scientific concepts. Emphasizes the impact of ocean pollutants, climate fluctuations, and resources from the sea. Prerequisites: None.

## GLG280

## Geology of Arizona Lecture

3 credit(s) 3 period(s) lecture
Acquaints students with the physical and historical geology of Arizona, including the origin of presentday land forms and outstanding modern geologic features and processes now in operation.
Prerequisites: None.
GLG281
Geology of Arizona Lab
1 credit(s) 3 period(s) lab
May accompany GLG280. Examples of specific geologic processes and local areas. May require field trips. Prerequisites: None.

## GPH - Physical Geography

## GPH111

## Introduction to Physical Geography Lecture

3 credit(s) 3 period(s) lecture
Earth's physical processes and impacts on human environments via the atmosphere, biosphere, lithosphere and hydrosphere. Topics include severe weather, climate change, biomes and ecosystems, landform processes; mountain building and erosion by rivers, glaciers, waves and wind. Prerequisites: None.

## GPH112

## Introduction to Physical Geography Lab

1 credit(s) 3 period(s) lab
Earth's physical processes and impacts on the human environment via the atmosphere, biosphere, lithosphere and hydrosphere. Practical experiences include earth-sun relationships, weather, climate, biomes, landform processes; mountain building and erosion by rivers, glaciers, waves and wind, topographic maps. Prerequisites: A grade of C or better in GPH111 or Corequisites: GPH111.

## GPH113

Introduction to Physical Geography
4 credit(s) 6 period(s) lecture + lab
Earth's physical processes and impacts on human environments via the atmosphere, biosphere, lithosphere and hydrosphere. Topics and practical experiences include severe weather, climate change, biomes and ecosystems, landform processes; mountain building and erosion by rivers, glaciers, waves and wind, topographic maps. Prerequisites: None.

## GPH211

## Landform Processes

4 credit(s) 6 period(s) lecture + lab
Geographic characteristics of landforms and earth surface processes emphasizing erosion, transportation, deposition and implications for human management of the environment. Prerequisites: None.

## GPH212

## Introduction to Meteorology I

3 credit(s) 3 period(s) lecture
Atmospheric processes and elements. General and local circulation, heat exchange and atmospheric moisture. Prerequisites: None.

## GPH213

## Climate and Weather

3 credit(s) 3 period(s) lecture
Study of atmospheric phenomena over periods of time measured in months, years or longer. Includes average weather conditions, infrequent and unusual types of weather, and the influence of weather on the cultural and human landscape. Prerequisites: None.

GPH214

## Introduction to Meteorology Laboratory I

1 credit(s) 3 period(s) lab
Basic meteorological and climatological measurements. Prerequisites: None. Corequisites: GPH212.

## GPH215

Climate and Weather Laboratory
1 credit(s) 3 period(s) lab
A mathematical, statistical, and spatial analysis of climatological phenomena. Prerequisites: None. Corequisites: GPH213.

## HCC - Health Core Curriculum

## HCC130

Fundamentals in Health Care Delivery<br>3 credit(s) 3 period(s) lecture

Overview of current and recent development of health care professions, including career and labor market information, health care delivery systems, third party payers, and facility ownership. Health organization structure, patient rights and quality care. Health care and life values. Definition and importance of values, ethics, and essential behaviors in the workplace. Worker rights and responsibilities. Healthful living practices to include nutrition, stress management and exercise. Occupational Safety and Health Administration (OSHA) standard precautions and facility safety. Use of principles of body mechanics in daily living activities. Basic communication skills which facilitate inter- professional teamwork in the health care setting. Focus on development of personal communication skills and an understanding of how effective communication skills promote teamwork. Focus on intercultural communication strategies. Prerequisites: None.

## HCC145

## Medical Terminology for Health Care Professionals

 3 credit(s) 3 period(s) lectureMedical terminology used in health care, with special care populations and in special services. Body systems approach to terms related to structures, functions, diseases, procedures, and diagnostic tests. Building and analyzing terms using word parts. Medical abbreviations and symbols and term spelling. Prerequisites: None.

## HCC145AA

## Medical Terminology for Health Care Professionals I 1 credit(s) 1 period(s) lecture

Introduction to medical terms used in health care. Body systems approach to selected terms related to structures, functions, diseases, procedures, and diagnostic tests. Building and analyzing selected terms using basic word parts. Selected medical abbreviations and symbols and term spelling. Prerequisites: None.

## HCC146

## Common Medical Terminology for Health Care Professionals

2 credit(s) 2 period(s) lecture
Common medical terms used in health care. Body systems approach to common terms related to structures, functions, diseases, procedures, and diagnostic tests. Building and analyzing common terms using word parts. Common medical abbreviations and symbols and term spelling. Prerequisites: None.

## HCC164

## Pharmacology for Allied Health

## 0.5 credit(s) 0.5 period(s) lecture

Chemical, generic, and trade names for drugs. Use of drug references. Pharmacological principles of drugs. Routes of drug administration. Federal and Arizona regulations. Classification of drugs. Abbreviations and symbols for drug measurement, administration, and prescription. Prerequisites: A grade of C or better in HCC130 or (HCC130AA, HCC130AB, HCC130AC, HCC130AD, HCC130AE and HCC130AF), or equivalent course education as evaluated by the Health Core Curriculum Coordinator.

## HCC204

## Clinical Pathophysiology

3 credit(s) 3 period(s) lecture
Causes of disease and their impact on the human body. Common physiologic effects of disease on body systems. Roles of the multidisciplinary health care team in the diagnosis and treatment of disease. Cultural implications in prevention and treatment of disease. Prerequisites: A grade of C or better in HCC130 or (HCC130AA, HCC130AB, HCC130AC, HCC130AD, HCC130AE and HCC130AF), or equivalent and (BIO160 or BIO201).

## HCC208

## Health Care Leadership

 1 credit(s) 1 period(s) lectureIntroduction to concepts and skills required of health care leaders. Discussion of leadership styles and conflict management. Application of motivation, delegation, and communication techniques to teamwork and leadership. Prerequisites: A grade of C or better in HCC130 or (HCC130AA, HCC130AB, HCC130AC, HCC130AD, HCC130AE and HCC130AF), or equivalent.

## HCR - Health Care Related

## HCR210

## Clinical Health Care Ethics

3 credit(s) 3 period(s) lecture
An introduction to health care ethics with emphasis on analysis and ethical decision making at both the clinical and health policy levels for health care professionals. Theoretical foundation of bioethics reviewed within historical and contemporary contexts. Prerequisites: A grade of C or better in ENG102 or ENG108 or permission of Instructor.

## HCR220

Introduction to Nursing and Health Care Systems
3 credit(s) 3 period(s) lecture
Introduction to the social, political, and economic contexts of the nursing profession and health care systems in the United States. Prerequisites: A grade of C or better in ENG102 or ENG108 or permission of Instructor.

HCR230
Culture and Health
3 credit(s) 3 period(s) lecture
Relation between cultures of diverse groups and health/illness. Emphasis on cross- cultural communication, including awareness of own cultural influences and indigenous and complementary healing practices. Prerequisites: None.

## HCR240

Human Pathophysiology
4 credit(s) 4 period(s) lecture
Chemical, biological, biochemical, and psychological processes as a foundation for the understanding of alterations in health. The structural and functional pathophysiology of alterations in health; selected therapeutics considered. Prerequisites: A grade of C or better in BIO202 or BIO205, or permission of Instructor.

## HES - Health Science

## HES100

## Healthful Living

3 credit(s) 3 period(s) lecture
Health and wellness and their application to an optimal lifestyle. Explores current topics of interest such as stress management nutrition, fitness, and environmental health. Evaluates common risk factors associated with modern lifestyles. Prerequisites: None.

## HES201

Substance Abuse and Behavior 3 credit(s) 3 period(s) lecture
Principles and factual bases of drug use and abuse. Physiological and socio-psychological effects of drug use and law enforcement of drug abuse. Consultants used extensively to enrich course. Prerequisites: None.

## HES210

Cultural Aspects of Health and Illness
3 credit(s) 3 period(s) lecture
Examines how culture influences health and illness, health care practices, barriers to health care, interactions with health care professionals, and health disparities in the U.S. Prerequisites: None.

## HIM - Health Information Management

## HIM101

## Introduction to Health Information Management <br> 3 credit(s) 4 period(s) lecture

Provides detailed investigation of the history, development, and evolution of the health information management (HIM) profession. Topics include health care delivery systems, HIM career paths, HIM functions, and HIM in acute and alternative care settings. Prerequisites: Acceptance into the Health Information Technology program and permission of Program Director.

## HIM105

Computers in Healthcare and Health Record Systems
2 credit(s) 2 period(s) lecture
Introduction to computer applications in healthcare settings including electronic health records, health record content, structure, and origin of clinical information for various healthcare settings. A basic review of federal, state, and organizational documentation guidelines. Legal and ethical issues applicable to health information documentation and coding practices. Prerequisites: (Acceptance into either the (CCL/5092) Medical Coding: Hospital-Based or the (CCL/5014) Medical Billing and Coding: Physician-Based program) and a grade of C or better in HCC130 or permission of Program Director.

## HIM106

## Legal and Ethical Aspects of Health Information Management

 3 credit(s) 3 period(s) lectureOverview of legal and ethical principles in health care and health information management. Topics include federal and state court systems; legal terminology; health care law; privacy, confidentiality, and security; release of information guidelines; ethics, bioethics, and ethical dilemmas. Prerequisites: Acceptance into the Health Information Technology program and permission of Program Director.

## HIM180

## Introduction to Medical Billing and Reimbursement

2 credit(s) 2 period(s) lecture
Overview of the medical billing profession, the revenue management process, and federal billing guidelines. Topics include Medicare, Medicaid, third party payers, management care models, and national insurance schemes. Prerequisites: Permission of Program Director.

## HIM181

## Medical Claims Processing

## 3 credit(s) 5 period(s) lecture + lab

Provides in depth analysis of the medical claims process in ambulatory care settings. Topics include electronic data interchange, claims management, confidentiality, data retention, and the claims review and appeals process. Requisites: A grade of C or better required in all Prerequisites. Prerequisites: (BPC110 and HIM180) or permission of Program Director.Prerequisites or Corequisites: HIM208 or permission of Program Director.

## HIM182

## Human Diseases for Coding in Long Term Care Settings

2 credit(s) 2 period(s) lecture
Overview of diseases commonly treated in long term, home health, and hospice settings. Systems
approach to causes, signs, symptoms, manifestations, diagnosis, and treatment of these diseases as required for accurate diagnostic coding. Prerequisites: A grade of C or better in (BIO160 and HCC146) or permission of Program Director.

## HIM183

## Diagnostic Coding in Long Term Care Settings <br> 4 credit(s) 6 period(s) lecture and lab

Introduction to the International Classification of Diseases (ICD) in long term care, home health and hospice settings. Topics include principles for diagnostic coding, standards of ethical coding, and diagnostic coding for reimbursement and coding compliance. Requisites: A grade of C or better required in all Prerequisites. Prerequisites: (BIO201 and HCC145) or permission of Program Director. Prerequisites or Corequisites: HIM200 or permission of Program Director.

## HIM203

## Healthcare Statistics and Data Analytics

3 credit(s) 4 period(s) lecture + lab
Emphasizes the role of Health Information Management professionals in calculating, mining, and reporting healthcare statistics for data analytics, research, quality assurance, financial, and other purposes. Topics include health statistics, morbidity, mortality, quality resource management, and research design. Prerequisites: A grade of C or better in (HIM160 and MAT112) or permission of Program Director.

## HIM205

## Managing Health Information in Long Term Care Settings 2 credit(s) 4 period(s) lecture + lab

Provides an in-depth analysis of the health information management function in Long Term Care (LTC) settings. Topics include long term care health record systems; LTC regulatory compliance standards and guidelines; common technologies used in LTC; and statistical and data analytics in LTC. Prerequisites: A grade of C or better in HIM103. Corequisites: BPC110 or permission of Program Director.

## HIM207

## Health Information Organizational Resource Management 3 credit(s) 3 period(s) lecture

Provides an overview of principles and practices essential to the efficient use of human, financial, and physical resources within health information management services. Topics include team building, planning, leading, organizing, directing, and controlling. Prerequisites: A grade of C or better in (HIM101 and HIM106) or permission of Program Director.

## HIM208

## ICD-CM Diagnostic Coding

2 credit(s) $\mathbf{4}$ period(s) lecture + lab Introduction to the International Classification of Diseases, Clinical Modification (ICD-CM) coding system. Topics include application of current ICD-CM guidelines and conventions for symptoms, signs, and abnormal clinical and laboratory findings, diseases, conditions, and external causes of morbidity in inpatient and outpatient settings. Requisites: A grade of C or better required in all Prerequisites. Prerequisites: (BIO202, HCC145, and HIM200) or permission of Program Director. Prerequisites or Corequisites: HIM180 or permission of Program Director.

## HIM209

## Procedural Coding Systems for Non- Coders

3 credit(s) 6 period(s) lecture + lab
Surveys major procedural coding systems used in acute, ambulatory, and alternative care settings. Structure, content, and guidelines for the current International Classification of Diseases, Procedure Coding System (ICD-PCS), Current Procedural Terminology (CPT), and Healthcare Common Procedure Coding System (HCPCS) classification systems are explored. Topics include purpose and function of procedural coding; coding guidelines and conventions; and coding accuracy, totality, and sequencing. A grade of C or better required in all Prerequisites. Prerequisites: HIM200 and BIO202. Prerequisites or Corequisites: HIM208 or permission of Program Director.

## HIM210

## ICD-PCS Coding and ICD Applications

## 2 credit(s) 4 period(s) lecture + lab

Introduction to the International Classification of Diseases, Procedure Coding System (ICD-PCS).
Topics include application of the current ICD-PCS guidelines and conventions for procedures in inpatient settings and coding technologies. Requisites: A grade of C or better required in all Prerequisites. Prerequisites: BIO202 and HIM200. Prerequisites or Corequisites: HIM208 or permission of Program Director.

## HIM211

Advanced Applications of Coding and Reimbursement
4 credit(s) 6 period(s) lecture + lab
Provides foundation for advanced coding application including the use of references, source documents, and technology. Topics include Uniform Hospital Discharge Data Set; diagnostic-related groups; federal regulations for hospital-based settings; coding conventions for home health, long term care, rehabilitation, and other health care settings; and the use of codes for administrative, reimbursement, marketing, and regulatory purposes. Prerequisites: A grade of C or better in (HIM208 and HIM210) or permission of Program Director.

## HIM213

CPT and HCPCS Coding
3 credit(s) 6 period(s) lecture + lab
Provides students with the foundation for using the Current Procedural Terminology (CPT) and the Healthcare Common Procedure Coding System (HCPCS). Topics include coding guidelines, healthcare reimbursement, coding technologies, ethical coding, and compliance issues. Prerequisites: A grade of C or better in BIO202, HCC145, HIM200, and HIM208.

## HIM215

## Physician-Based Billing and Coding Seminar

1 credit(s) 1 period(s) lecture
Guidance in the development of physician- based billing and coding compliance programs. A grade of C or better required in all Prerequisites. Prerequisites: HIM213 or permission of Program Director.
Prerequisites or Corequisites: HIM211 and current CPR at BLS Healthcare Provider Level through the American Heart Association and permission of Program Director. Corequisites: HIM216 or permission of Program Director.

HIM216
Professional Practice in Physician-Based Billing and Coding

1 credit(s) 5 period(s) lab
Practical application of billing and coding guidelines, conventions, and regulations under the supervision of a preceptor in an ambulatory care setting. A grade of C or better required in all Prerequisites.
Prerequisites: HIM213 or permission of Program Director. Prerequisites or Corequisites: HIM211 and current CPR at BLS Healthcare Provider Level through the American Heart Association and permission of Program Director. Corequisites: HIM215 or permission of Program Director.

## HIM219

## Health Information Management Systems

3 credit(s) 3 period(s) lecture + lab
Overview of the fundamental concepts, terminology, and structure of health information systems with an emphasis on applications used to manage electronic health information. Topics include health informatics; health information systems; electronic claims processing; electronic health records; electronic data interchange; and privacy, security, and confidentiality. Prerequisites: A grade of C or better in HIM160, and (BPC110 or CIS105).

## HIM221

## Medical Coding Seminar

1 credit(s) 1 period(s) lecture
Guides students in the development of hospital-based coding compliance programs. Explores career development tools for medical billers and coders. A grade of C or better required in all Prerequisites. Prerequisites: HIM213 or permission of Program Director. Prerequisites or Corequisites: HIM211 or permission of Program Director. Corequisites: HIM222 or permission of Program Director.

## HIM222

## Professional Practice in Medical Coding

1 credit(s) 5 period(s) lab
Practical application of coding guidelines, conventions, and regulations under the supervision of a preceptor in an acute care setting. A grade of C or better required in all Prerequisites. Prerequisites: HIM213 or permission of Program Director. Prerequisites or Corequisites: HIM211 and current CPR at BLS Healthcare Provider Level through the American Heart Association and permission of Program Director. Corequisites: HIM221 or permission of Program Director.

## HIM225

## Health Data Analytics

## 3 credit(s) 4 period(s) lab

Provides students with integral tools and skills to analyze data commonly used in healthcare provision. Topics include data analysis, organization, and preparation tools; statistical techniques and variables; study design; benchmarking; and quality and performance improvement. Prerequisites: A grade of C or better in (CIS114DE and HIM203).

HIM231

## Health Data Management Seminar

1 credit(s) 3 period(s) lecture
Designed for students pursuing skills and knowledge in health data management. Topics include career development, team building, health data systems management and preparation for the professional certification exam. Prerequisites: A grade of C or better in CIS114DE, HIM203, HIM208, and HIM209. Corequisites: HIM232. Course Notes: Student must participate in the PPE (Professional Practice Experience) Orientation. Consult with Program Director or Instructor.

## HIM232

## Health Data Management Professional Practice

1 credit(s) 5 period(s) laboratory
Practical application of health data management knowledge and skills under the supervision of a preceptor in an acute, ambulatory, and/or alternative care setting. Prerequisites: A grade of C or better in CIS114DE, HIM203, HIM208, HIM209 and current CPR certification at Basic Life Support (BLS) Healthcare Provider level through the American Heart Association. Corequisites: HIM231. Course Notes: Student must participate in the PPE (Professional Practice Experience) Orientation. Consult with Program Director or Instructor.

## HIM233

## Revenue Cycle Management Seminar

1 credit(s) 3 period(s) lecture
Prepares students for the workforce in the field of revenue cycle management. Topics include strategies for team building, project collaboration, career development, and preparation and review for professional exam. Prerequisites: A grade of C or better in (HIM208 and HIM210) or permission of Program Director. Corequisites: HIM234 and permission of Program Director. Course Notes: Student must participate in the PPE (Professional Practice Experience) Orientation. Consult with Program Director or Instructor.

## HIM234

## Revenue Cycle Data Management Professional Practice <br> 1 credit(s) 5 period(s) lab

Practical application of revenue cycle management knowledge and skills under the supervision of a preceptor in an acute, ambulatory, and/or alternative care setting. Prerequisites: A grade of C or better in (HIM208 and HIM210) or permission of Program Director, and CPR at BLS Healthcare Provider level through the American Heart Association. Corequisites: HIM233 and permission of Program Director. Course Notes: Current CPR certification at BLS Healthcare Provider Level through the American Heart Association required prior to placement. Student must participate in the PPE (Professional Practice Experience) Orientation. Consult with Program Director or Instructor.

## HIM298AA-AC

## Special Projects

## $\mathbf{1 - 3}$ credit(s) $\mathbf{1 - 3}$ period(s) lab

Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance. Professional-type facilities and equipment are made available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development.
Prerequisites: Permission of Program Director or Instructor.

## HIS - History

HIS100
History of Western Civilization to Middle Ages
3 credit(s) 3 period(s) lecture
Survey of the origin and development of Western civilization and its institutions from prehistory through the Ancient World and the Middle Ages. Prerequisites: None.

## HIS101

## History of West Civilization Middle Ages to 1789

3 credit(s) 3 period(s) lecture
Survey of the history of the Western world from the emergence of Western civilization in the Middle Ages to the start of the French Revolution. Prerequisites: None.

## HIS102

History of Western Civilization 1789 to Present
3 credit(s) 3 period(s) lecture
Survey of the history of the Western world from the French Revolution to the present. Prerequisites: None.

## HIS103 HIS 1131 sunim

United States History to 18653 credit(s) 3 period(s) lecture
The political, economic, and social development of the United States from the Pre-Columbian period through the end of the Civil War (1865). Prerequisites: None.

## HIS104 HIS 1132 sunve

United States History 1865 to Present 3 credit(s) 3 period(s) lecture
The political, economic, and social development of United States from 1865 to the present time.
Prerequisites: None.

## HIS105

Arizona History
3 credit(s) 3 period(s) lecture
The prehistoric and contemporary Native American experience, Spanish colonial times, the Mexican National period, the U.S. federal territorial years, and Arizona's political and economic development during the twentieth century. Prerequisites: None.

## HIS106

## Southwest History

## 3 credit(s) 3 period(s) lecture

Historical survey of the American Southwest including ecological/environment, political, economic, religious and social developments. Includes the unique role of the region in national and global events.
Prerequisites: None.

## HIS108

United States History 1945 to the Present
3 credit(s) 3 period(s) lecture
Survey of American history from 1945 to the present. Focuses on the political, social, economic and cultural history of the United States from the end of World War II to the present time. Includes domestic
developments and foreign policy. Prerequisites: None.
HIS109

## Mexican-American History and Culture

3 credit(s) 3 period(s) lecture
Examination of origins and development of the Spanish-American and Mexican- American peoples and their contribution to the culture, history and development of United States. Emphasis on MexicanAmerican War and its impact on educational, social, and economic conditions of the MexicanAmericans of the southwest. Prerequisites: None.

## HIS145

History of Mexico
3 credit(s) 3 period(s) lecture
Survey of the major forces that shaped the history of Mexico and its culturally diverse communities from pre-Columbian times to the present. Also examines how these historical forces continue to shape contemporary Mexican society and its place within the world. Prerequisites: None.

## HIS/AIS170

American Indian History of the Southwest
3 credit(s) 3 period(s) lecture
Covers history of American Indian Peoples of the Southwestern United States from pre- European contact era to the present. Includes historical events, the development and implementation of nonIndigenous policies and their impact on American Indian Peoples in these areas, and contemporary issues of importance. Prerequisites: None.

## HIS190

## Environmental History

3 credit(s) 3 period(s) lecture
Survey of the environmental history of the world from hunter-gatherer societies to the present including but not limited to social groups, natural resources, and physical environments and impacts on the Earth. Prerequisites: None.

## HIS203

African-American History to 1865
3 credit(s) 3 period(s) lecture
History and cultural heritage of African- Americans from their beginnings in Ancient Africa through the experience of chattel slavery in the Americas to their eventual emancipation and participation in the American Civil War. Prerequisites: None.

## HIS/AFR204

## African-American History 1865 to Present

## 3 credit(s) 3 period(s) lecture

The multifaceted history and cultural heritage of African-American communities since the Civil War, presented within the broader context of U.S. history. This course explores the social, economic, political, and cultural history of African-American communities, including the historical and cultural impacts of slavery and discrimination, and the collective struggle for freedom, equality, and self-determination throughout U.S. history. Prerequisites: None.

## The Chicana/o in 20th and 21st Century America

3 credit(s) 3 period(s) lecture
Analysis of the 20th and 21 st century Chicano experience. Interdisciplinary approach to contemporary
Mexican American history and culture in the borderlands. Prerequisites: None.

## HIS242

Latin American Civilization in the Post- Colonial Period 3 credit(s) 3 period(s) lecture
A survey of the political, economic, and social forces which molded Latin American civilization in the period of the development of Republics. Prerequisites: None.

## HST - Histologic Technology

## HST180

Overview of Histology (Anatomic) Laboratory
2 credit(s) 2 period(s) lab
Overview of anatomic laboratory services, anatomic laboratory professionals, and the role of the histology technician. Emphasis on certification, accreditation, and regulatory agencies. Application of process improvement, quality control, laboratory mathematics, infection control, sharps/ mechanical hazards, documentation, medico-legal implications, and chemical hygiene principles. Includes information management in anatomic laboratories. Importance of management and supervision leadership principles and professional growth and ethical conduct. Prerequisites: Admission to Histologic Technology Program or permission of Program Director.

## HST181

## Chemistry of Fixation

## 3 credit(s) 3 period(s) lecture + lab

Principles of fixation and fixative solutions. Anatomic laboratory instrumentation and specimen handling, identification, and tracking protocols. Emphasis on gross examination processes, tissue processing protocols, and specialized processing techniques. Prerequisites: Admission to Histologic Technology Program or permission of Program Director, and a grade of C or better in HST180.

## HST182

## Microtomy

5 credit(s) 4 period(s) lecture + lab
Emphasis on decalcification techniques, ergonomic safety practices for microtomy, and frozen section techniques. Application of embedding orientation by tissue type. Procedures for paraffin embedding station, cryostat and rotary microtome set-up and maintenance, and sharps safety practices for the microtome. Includes techniques for microtomy, specialized microtomy, frozen section, and cytology specimen preparation. Prerequisites: A grade of C or better in HST181.

## HST183

## Practicum: Chemistry of Fixation

## 1 credit(s) 4.5 period(s) lab

Practicum in histology techniques performed in an anatomic laboratory. Application of clinical skills for specimen handling, identification, and tracking protocols. Use of anatomic laboratory instrumentation. Study of gross examination protocols. Demonstration of fixation techniques, paraffin processing protocols, and specialized processing techniques. Performance of clerical and computer functions using medico-legal guidelines for documentation. Use of professional and ethical conduct in all interpersonal communications. Prerequisites: A grade of C or better in HST181 or permission of Program Director.

## HST184

## Practicum: Microtomy

## 1 credit(s) 4.5 period(s) lab

Practicum in histology techniques performed in an anatomic laboratory. Use of decalcification and frozen section techniques. Includes embedding orientation by tissue type and ergonomic safety practices for microtomy. Procedures for the paraffin embedding station, cryostat and rotary microtome set-up and maintenance, and sharps safety practices for the microtome. Emphasis on techniques for microtomy, specialized microtomy, frozen section, and cytology specimen preparation. Prerequisites: A grade of C or
better in HST182.

## HST185

## Cellular Biological Staining

5 credit(s) 4 period(s) lecture + lab
Recognition of basic cellular structure. Identification of carbohydrates classification, pigments, minerals, and lipids in tissues and connective tissue structures. Explanation of chemical staining theory. Stain principles and procedures for nuclear and cytoplasmic structures, carbohydrates and lipids, connective tissue, and tissue pigments and minerals stains. Prerequisites: A grade of C or better in HST182. Corequisites: HST187.

## HST186

Cellular Biological and Immunohistochemical Staining
5 credit(s) 4 period(s) lecture + lab
Identification of pathologic organisms and neurological structures. Use of stains for microorganisms and neurological structures. Explanation of theories of histochemical and immunohistochemical staining. Procedures for histochemical and immunohistochemical stains. Overview of specimens for electron microscopy and autopsy procedures. Emphasis on assessing histology workflow processes, laboratory procedure manuals, and workload and productivity recording and monitors. Prerequisites: A grade of C or better in HST185.

## HST187

## Practicum: Cellular Biological Staining

1 credit(s) 4.5 period(s) lab
Practicum in histology techniques performed in an anatomic laboratory. Recognition of basic cellular structure, carbohydrate structures, connective tissue, lipid structures, and pigments and minerals in tissues. Application of chemical staining. Emphasis on stains for nuclear and cytoplasmic structures, carbohydrates and lipids, connective tissue, and tissue pigments and minerals stains. Prerequisites: A grade of C or better in HST185.

HST188

## Practicum: Cellular Biological and Immunohistochemical Staining

 1 credit(s) 4.5 period(s) labPracticum in histology techniques performed in an anatomic laboratory. Identification of pathologic organisms and neurological structures. Use of stains for microorganisms and neurological structures. Application of histochemical and immunohistochemical stains. Observation of electron microscopy and autopsy procedures. Emphasis on histology workflow processes, laboratory procedure manuals, and workload and productivity recording and monitors. Prerequisites: A grade of C or better in HST186.

## HUM - Humanities

HUM108
Contemporary Humanities
3 credit(s) 3 period(s) lecture
An exploration of human expression in contemporary arts and sciences. Prerequisites: None.

## HUM120

Cultural Viewpoints in the Arts
3 credit(s) 3 period(s) lecture
Introduction to the influence of culture and ethnicity on the artist, including factors such as race, religion, gender, class, sexual preference, age, and region. Lecture and discussion on various art forms, including literature, visual arts, music, dance, film, and theater. Prerequisites: None.

HUM190AA-AI

## Honors Forum

1 credit(s) 1 period(s) lecture
Interdisciplinary studies of selected issues confronting the individual and society. Formal lectures followed by informal discussions with outstanding scholars and social leaders. Supplemented by readings and pre- and post-forum discussion and critique. Varied content from module to module due to changing forum themes and issues. Prerequisites: Admission to the College Honors Program or permission of Instructor.

## HUM202

## Humanities: Universal Themes

3 credit(s) 3 period(s) lecture
The hero/heroine; fool; the social world, and the future as themes in the humanities. Prerequisites: None.

## HUM/THF205

## Introduction to Cinema

## 3 credit(s) 3 period(s) lecture

Survey of the history and development of the art of motion pictures, including criticism of aesthetic and technical elements. Prerequisites: None.

## HUM/WST209

Women and Films
3 credit(s) 3 period(s) lecture
Analysis of images of women in films from both historical and contemporary perspectives.
Prerequisites: None.
HUM/THF210
Contemporary Cinema
3 credit(s) 3 period(s) lecture
A study of contemporary films, directors, and critics with emphasis on evaluating films as an art form. Prerequisites: None.

HUM212
Documentary Film

## 3 credit(s) 3 period(s) lecture

Survey of documentary or non-fiction film. Emphasis on the interplay between form, subject, cultural context and filmmaker perspective. Focuses on primary types of documentary film, such as poetic, observational, expository reflexive, participative, and performative. Analyzes what distinguishes documentary film from fiction film. Prerequisites: A grade of C or better in ENG101 or ENG107.

HUM213
Hispanic Film
3 credit(s) 3 period(s) lecture
Analysis of Hispanic film as art form and as social commentary. Prerequisites: None.

## HUM250

Ideas and Values in the Humanities: Early Civilizations to the Renaissance 3 credit(s) 3 period(s) lecture
An historical analysis of the interrelationships of art, architecture, literature, music, and philosophy from the early civilizations to the Renaissance, including Western and non- Western cultures. Prerequisites: A grade of C or better in ENG101.

## HUM251

Ideas and Values in the Humanities: Renaissance to the Contemporary World 3 credit(s) 3 period(s) lecture
An historical analysis of the interrelationships of art, architecture, literature, music, and philosophy from the Renaissance to modern period, including Western and non-Western cultures. Prerequisites: A grade of C or better in ENG101.

HUM260
Intercultural Perspectives
3 credit(s) 3 period(s) lecture
Cultural, literary, and artistic expressions of Native, Hispanic, and African Americans. Includes traditional and modern work and contribution to American civilization. Prerequisites: None.

## HUM/EDU/STO292

The Art of Storytelling
3 credit(s) 3 period(s) lecture
Explore the art and origin of storytelling. Provide a variety of storytelling techniques, styles and exercises to enhance the delivery of telling stories. Assist in the integration and application of storytelling to the learning environment in the classroom. Prerequisites: None.

## IBS - International Business

## IBS101

## Introduction to International Business 3 credit(s) 3 period(s) lecture

A basic overview of international business to introduce students to international trade concepts. Focus of the course is on international business environment issues that influence global business practices, decisions and applications. Prerequisites: None.

## INT - Interior Design

## INT100

Interior Design Drafting<br>3 credit(s) 6 period(s) lecture + lab

Basic manual drafting techniques used in the interior design industry. Focus on industry standards of equipment use, lettering, line work, dimensioning, scaling, and annotation. Introduction and practice of industry-specific drawing types, including floor plans, elevations, sections, details, multi-view projection, and paraline. Brief exploration of hand sketching and Computer- Aided Design (CAD) techniques as they relate to manual drafting. Prerequisites: None.

## INT105


#### Abstract

Introduction to Interior Design 3 credit(s) 3 period(s) lecture Overview of interior design and related professions, including the design process, elements and principles of design, and basic concepts of space planning and furniture layout. Development of design vocabulary relative to architectural details, furnishings, and finishes. Prerequisites: None.


## INT115

## Historical Architecture and Furniture

## 3 credit(s) 3 period(s) lecture

Historical survey of the development of architecture, interiors, furniture, and decorative arts from antiquity to the Industrial Revolution. Prerequisites: None.

## INT120

## Modern Architecture and Furniture

3 credit(s) 3 period(s) lecture
Survey of the development of architecture, interiors, furniture, and decorative arts from the Industrial Revolution to the present. Emphasis is on modern architects and designers. Prerequisites: None.

## INT122

## Digital Visualization for Design

3 credit(s) 6 period(s) lecture + lab
Introduction to raster based rendering techniques utilizing interior design and landscape drawings. Comparison of raster-based rendering to vector-based rendering and presentation techniques utilizing leading industry software such as Adobe Photoshop and Adobe Illustrator. Prerequisites: None.

## INT/TEC126

## Sewing for the Home

3 credit(s) 3 period(s) lecture
Provides students systemic skills and knowledge to plan and construct draperies, shades, pillows, bedding and other home furnishings through instructional projects. Emphasizes techniques used in producing textile goods for the home. Prerequisites: None. Course Notes: Basic sewing skills recommended. INT/ TEC126 may be repeated for a total of nine (9) credit hours.

## INT140

## Introduction to CAD for Interior Design

3 credit(s) 6 period(s) lecture + lab
This class focuses on the development of two-dimensional and three-dimensional spatial development
through the use of Computer-Aided Design (CAD), computer- aided design for interior design following American Institute of Architects (AIA) guidelines. Prerequisites: None.

## INT145

## Drawing and Rendering

3 credit(s) 6 period(s) lecture + lab
Development of basic freehand sketching and perspective drawing skills. Explores styles and techniques with emphasis on quick sketch and presentation type drawings as usedby design professionals. Prerequisites: None.

## INT150

## Color and Design

3 credit(s) 6 period(s) lecture + lab
Introduction to the theory and application of color as related to the elements and principles of design. Light and its effect on color. Emphasis on the development of presentation skills for the field of interior design. Prerequisites: None.

## INT156

## Furniture Upholstery I

3 credit(s) 5 period(s) lecture + lab
Techniques of general furniture upholstery, operations of webbing, springing, stuffing, trimming, sewing and cushion making on approved student-selected projects. Prerequisites: None. Course Notes: INT156 may be repeated for a total of nine (9) credit hours. Students must provide the furniture piece.

## INT157

## Furniture Upholstery II

3 credit(s) 5 period(s) lecture + lab
Application and use of modern materials and tools, button tufting, channel construction, and special trim effects. Prerequisites: A grade of C or better in INT156 or permission of Department or Division. Course Notes: INT157 may be repeated for a total of nine (9) credit hours. Students must provide the furniture piece.

## INT158

## Furniture Upholstery III

3 credit(s) 5 period(s) lecture + lab
Advanced techniques in upholstering of furniture and other needle-trade items; time and money saving shortcuts in layout; fabric cutting and sewing. Prerequisites: A grade of C or better in INT157 or permission of Department or Division. Course Notes: INT158 may be repeated for a total of nine $(9)$ credit hours. Students must provide the furniture piece.

## INT159

## Furniture Upholstery IV

3 credit(s) 5 period(s) lecture + lab
Advanced techniques of furniture upholstery for students interested in entering the upholstery trade; modern production techniques for sewing; stuffing; and finishing; job estimating; equipment selection and maintenance. Prerequisites: A grade of C or better in INT158. Course Notes: INT159 may be repeated for credit. Students must provide the furniture piece.

## INT160

## Fabrics for Interiors

3 credit(s) 3 period(s) lecture
Study of the properties, design, and performance characteristics of interior fabrics. Psychological and cultural impact of textiles on the built environment. Role of the interior designer in working with textiles. Introduction to regulations and codes within the textile industry. Prerequisites: None.

## INT170

## Interior Materials

3 credit(s) 6 period(s) lecture + lab Properties, performance, maintenance, sustainability and general characteristic of interior finishes, furnishings, and equipment. Emphasis on building a resource file of interior finishes, furnishings, and equipment sources. Prerequisites: A grade of C or better in INT105 or permission of Instructor.

## INT175

## Custom Design <br> 3 credit(s) 6 period(s) lecture + lab

Custom design for interiors. Creative problem-solving using design theory and process to the custom design of interiors. Emphasis on visualization of concepts through sketching, shop drawings, and basic specifications. Prerequisites: A grade of C or better in [INT105 and (ARC141 or INT140) and INT122 and (INT145 or (INT145AA and INT145AB))] or permission of Instructor.

## INT190

## Space Planning

3 credit(s) 6 period(s) lecture + lab
Study of creative, critical, analytical and strategic thinking as it relates to human behavior and the built environment. Emphasis on design theory, process, and application. Considerations for space utilization including anthropometrics and ergonomics. Requisites: A grade of C or better required in all
Prerequisites. Prerequisites: INT105. Prerequisites or Corequisites: ARC141 or INT140.

## INT211

## Interior Materials and Specifications

3 credit(s) 6 period(s) lecture + lab
Properties, performance, maintenance, sustainability and general characteristics of interior finishes.
Emphasis on selection, basic estimating, and writing specifications. Requisites: A grade of C or better required in all Prerequisites. Prerequisites: ARC141, or INT140, or permission of Instructor.
Prerequisites or Corequisites: INT222 or [INT240 or (INT240AA and INT240AB)].

## INT215

## Professional Practices

3 credit(s) 6 period(s) lecture + lab
Marketing, business processes, and ethical issues in the interior design industry. Create materials for use in the profession including a portfolio, resume, and online presence. Includes hands-on experiences within the interior design field. Prerequisites: A grade of C or better in INT190 or permission of Instructor.

INT230
Presentation Techniques
3 credit(s) 6 period(s) lecture + lab

Advanced freehand sketching and perspective drawing skills. Explores a variety of styles and techniques with emphasis on presentation type drawings and portfolio development techniques used by design professionals. Requisites: A grade of C or better required in all Prerequisites. Prerequisites: [INT145 or (INT145AA and INT145AB)] and (INT140 or ARC141). Prerequisites or Corequisites: INT122 or ARC142.

INT240

## Kitchen and Bath Design

3 credit(s) 6 period(s) lecture + lab
Exploration into the specific requirements associated with kitchen and bath design. Emphasis on the design process and computer-based tools for interior design. Requisites: A grade of C or better required in all Prerequisites. Prerequisites: INT190 and (ARC141 or INT140). Prerequisites or Corequisites: INT211 or (INT211AA and INT211AB).

## INT268

## Lighting Design

3 credit(s) 6 period(s) lecture + lab
Study of interior lighting design and its impact on the health, safety and welfare of the public.
Prerequisites: AAS Degree in Interior Design or permission of Department or Division.
INT271AA
Interior Design Internship
1 credit(s) 5 period(s) lab
Interior design work experience in the interiors industry. Required to work 80 hours. Supervised and evaluated by a coordinator. Prerequisites: Permission of Department or Division. Course Note: May be repeated for a total of four (4) credits with department permission.

## INT271AB

Interior Design Internship
2 credit(s) 10 period(s) lab
Interior design work experience in the interiors industry. Required to work 160 hours. Supervised and evaluated by a faculty coordinator. Prerequisites: Permission of Department or Division. Course Note: May be repeated for a total of four (4) credits with department permission.

## INT271AC

## Interior Design Internship

3 credit(s) 15 period(s) lab
Interior design work experience in the interiors industry. Required to work 240 hours. Supervised and evaluated by a faculty coordinator. Prerequisites: Permission of Department or Division.

INT274AA
Interior Design Study Tour
1 credit(s) 5 period(s) lab
A tour of the interior design industry outside of the metropolitan Phoenix area. Includes a variety of experiences and activities to enhance knowledge about this multi-faceted career. Prerequisites:
Permission of Department or Division.
INT274AB
Interior Design Study Tour
$\mathbf{2}$ credit(s) $\mathbf{1 0}$ period(s) lab
A tour of the interior design industry outside of the metropolitan Phoenix area. Includes a variety of experiences and activities to enhance knowledge about this multi-faceted career. Prerequisites: Permission of Department or Division.

## INT274AC

Interior Design Study Tour
3 credit(s) $\mathbf{1 5}$ period(s) lab
A tour of the interior design industry outside of the metropolitan Phoenix area. Includes a variety of experiences and activities to enhance knowledge about this multi-faceted career. Prerequisites: Permission of Department or Division.

## INT285

## Design Portfolio Development

1 credit(s) 1.5 period(s) lab
Design, produce, and present a professional portfolio appropriate to the field of Interior Design. Includes material selection and techniques, customer focus, contents and organization, presentation formats, and presentation boards to represent a variety of technical and aesthetic areas of design. Prerequisites: A grade of C or better in INT240 or (INT240AA and INT240AB) or permission of Program Director.

## IPP - Interpreter Preparation Program

Also see American Sign Language, ASL.

## IPP198

## Careers in Deaf Studies: Observation

1 credit(s) 1 period(s) lecture + lab
Provides experience through observation to the world of work of a professional interpreter. Observation of professional interpreters in a variety of work settings, including but not limited to professional principles, standards and ethics applied to everyday interpreting settings. Prerequisites: A grade of C or better in IPP205 or permission of Department or Division. Completion of prerequisites within the last three years is required. Course Notes: IPP198 may be repeated for a total of three (3) credits.

## IPP205

## Introduction to Interpreting

3 credit(s) 3 period(s) lecture
Theories of role, function, responsibilities, and communication strategies of the American Sign Language (ASL)/English interpreter. Covers application and implementation of the National Registry of Interpreters for the Deaf (R.I.D.) and National Association of the Deaf (N.A.D.) Code of Professional Conduct. Additional topics addressed include interpreters functioning as advocates, moral systems vs. ethical systems, standard business practices, and perceptions of consumers. Prerequisites: A grade of C or better in ASL201 or permission of Department or Division. Completion of prerequisites within the last three years is required. Course Notes: IPP205 may be repeated for a total of nine (9) credit hours.

## IPP208

## Advanced American Sign Language Discourse

4 credit(s) 4 period(s) lecture (Spring only)
Advanced study of terminology and discourse in various fields such as medical, judicial, technological, as well as financial and business transactions. Use of specialized terminology/concepts in dialogues, discussions, and narratives. Advanced use of classifiers, structuring of space, and grammatical features of American Sign Language (ASL). Prerequisites: A grade of B or better in ASL203. Completion of prerequisites within the last three years is required.

## IPP215

## ASL to English Consecutive Interpreting

2 credit(s) 3 period(s) lecture + lab (Fall only)
Sequential development of consecutive interpreting skills from American Sign Language (ASL) to English. Source language analysis and target language equivalents emphasized. Analysis of texts and contexts of naturally occurring monologues, guidance for discovering personal filters, practice of skills, techniques for self and peer evaluations, and application of theoretical models. Prerequisites: (Acceptance into the Interpreter Preparation Program or permission of Department or Division) and IPP211 with a grade of " B " or better.

## IPP216

## ASL to English Simultaneous Interpreting

3 credit(s) 4 period(s) lecture + lab (Spring only)
Sequential development of simultaneous interpreting skills from American Sign Language (ASL) to English. Source language analysis and target language equivalents emphasized. Analysis of texts and contexts of naturally occurring monologues from different genres with increasing length and difficulty, practice of skills, techniques for self and peer evaluations, and application of theoretical models.

Prerequisites: A grade of B or better in IPP215 and permission of Program Director. Course Notes: IPP216 must be completed with a grade of B or better to graduate from the Associate in Applied Science (AAS) and Certificate of Completion (CCL) in Interpreter Preparation programs. Students must acknowledge the Interpreter Preparation Exit Requirements prior to enrollment in IPP216 and should consult with an advisor for guidance.

## IPP218

## English to ASL Consecutive Interpreting

2 credit(s) 3 period(s) lecture + lab (Fall only)
Sequential development of consecutive interpreting skills from English to American Sign Language (ASL). Source language analysis and target language equivalents emphasized. Analysis of texts and contexts of naturally occurring monologues, guidance for discovering personal filters, practice of skills, techniques for self and peer evaluations, and application of theoretical models. Prerequisites: (Acceptance into the Interpreter Preparation Program or permission of Department or Division) and IPP211 with a grade of "B" or better. IPP215 suggested but not required.

## IPP219

## English to ASL Simultaneous Interpreting

3 credit(s) 4 period(s) lecture + lab (Spring only)
Sequential development of simultaneous interpreting skills from English to American Sign Language (ASL). Source language analysis and target language equivalents emphasized. Analysis of texts and contexts of naturally occurring monologues from differing genres with increasing length and difficulty, practice of skills, techniques for self and peer evaluations, and application of theoretical models. Prerequisites: A grade of B or better in IPP218, and permission of Program Director. Completion of prerequisites within the last three years is required. Course Notes: IPP219 must be completed with a grade of B or better to graduate from the Associate in Applied Science (AAS) and Certificate of Completion (CCL) in Interpreter Preparation programs. Students must acknowledge the Interpreter Preparation Exit Requirements prior to enrollment in IPP219 and should consult with an advisor for guidance.

## IPP220

## Interactive Interpreting I

3 credit(s) 4 period(s) lecture + lab (Fall only)
Sequential development of interactive interpreting skills from English to American Sign Language (ASL) and from ASL to English. Perform source language analysis, apply cognitive processing techniques, and produce target language equivalents. Analysis of texts and contexts of naturally occurring dialogues, practice of skills, techniques for self and peer evaluations, and application of theoretical models. Prerequisites or Corequisites: A grade of B or better in IPP211 or permission of Department or Division. Completion of prerequisites within the last three years is required.

## IPP221

## Interactive Interpreting II

3 credit(s) 4 period(s) lecture + lab (Spring only)
Continued development of interactive interpreting skills from English to American Sign Language (ASL) and from ASL to English. Perform source language analysis, apply cognitive processing techniques, and produce target language equivalents. Analysis of texts and contexts of naturally occurring dialogues, practice of skills, techniques for self and peer evaluations, and application of theoretical models. Prerequisites: A grade of B or better in IPP220, and permission of Program Director. Completion of prerequisites within the last three years is required. Course Notes: IPP221 must be
completed with a grade of B or better to graduate from the Associate in Applied Science (AAS) and Certificate of Completion (CCL) in Interpreter Preparation programs. Students must acknowledge the Interpreter Preparation Exit Requirements prior to enrollment in IPP221 and should consult with an advisor for guidance.

## IPP229

## Interpreter Preparation Internship Seminar

## 1 credit(s) 1 period(s) lecture

(Spring only)
Classroom portion of the Interpreter Preparation Program internship. Emphasizes the blend of job-related activities including career exploration, employment application procedures, interpersonal skills, and on-the- job problems. Prerequisites: Acceptance into the Interpreter Preparation Program and/or program director approval. Corequisites: IPP230AA or IPP230AB. Course Notes: IPP229 may be repeated for a total of four (4) credit hours.

## IPP230AA

## Interpreter Preparation Program Internship

1 credit(s) 5 period(s) lab (Spring only)
Laboratory portion of the Interpreter Preparation Program seminar. Eighty (80) clock hours of work required. Practical experience in settings such as educational, rehabilitation, community service centers, and agencies serving children, adolescents, and/or adults who are deaf or hard of hearing. Designed to provide students with the opportunity to synthesize practical and academic experiences gained during the in-classroom portion of the program. Site, supervision, and plan of activity mutually agreed upon by the student and instructor. Capstone experience for Associate in Applied Science (AAS) degree students. Prerequisites: Acceptance into the Interpreter Preparation Program and Program Director approval. Corequisites: IPP229. Course Notes: IPP230AA must be completed with a grade of B or better to graduate from the Associate in Applied Science (AAS) and Certificate of Completion (CCL) in Interpreter Preparation programs. IPP230AA may be repeated for a total of four (4) credit hours. Students must acknowledge the Interpreter Preparation Exit Requirements prior to enrollment in IPP230AA and should consult with an advisor for guidance.

## IPP230AB

## Interpreter Preparation Program Internship

2 credit(s) 10 period(s) lab (Spring only)
Laboratory portion of the Interpreter Preparation Program Seminar. One hundred sixty (160) clock hours of work required. Practical experience in settings such as educational, rehabilitation, community service centers, and agencies serving children, adolescents and/or adults who are deaf or hard of hearing. Designed to provide students with the opportunity to synthesize practical and academic experiences gained during the in-classroom portion of the program. Site, supervision, and plan of activity mutually agreed upon by the student and instructor. Capstone experience for Associate in Applied Science (AAS) degree students. Prerequisites: Acceptance into the Interpreter Preparation Program and Program Director approval. Corequisites: IPP229. Course Notes: IPP230AB must be completed with a grade of B or better to graduate from the Associate in Applied Science (AAS) and Certificate of Completion (CCL) in Interpreter Preparation programs. IPP230AB may be repeated for a total of four (4) credit hours. Students must acknowledge the Interpreter Preparation Exit Requirements prior to enrollment in IPP230AB and should consult with an advisor for guidance.

## IPP242

Educational Interpreting Skills

1 credit(s) 2 period(s) lecture + lab
Skill development and application of techniques used specifically in educational (K-12) interpreting and transliterating. Covers sign systems, technical signs, and methods of non-standard sign incorporation.
Prerequisites: A grade of B or better in (IPP209 and IPP211) and permission of Program Director.
Course Notes: IPP242 must be completed with a grade of B or better to graduate from the Associate in Applied Science (AAS) and Certificate of Completion (CCL) in Interpreter Preparation programs.
IPP242 may be repeated for a total of four (4) credit hours. Students must acknowledge the Interpreter Preparation Exit Requirements prior to enrollment in IPP242 and should consult with an advisor for guidance.

IPP250AA
Special Topics: Interpreter Preparation
1 credit(s) 1 period(s) lecture + lab
Explores a special topic related to interpreter preparation. Topics vary and include concepts relevant to those pursuing career in (American Sign Language) ASL/English Interpretingand Transliterating.
Prerequisites: Acceptance into the Interpreter Preparation Program or permission of Program Director. Course Note: IPP250AA may be repeated for credit.

## IPP250AB

Special Topics: Interpreter Preparation
2 credit(s) 2 period(s) lecture + lab
Explores a special topic related to interpreter preparation. Topics vary and include concepts relevant to those pursuing career in (American Sign Language) ASL/English Interpreting and Transliterating.
Prerequisites: Acceptance into the Interpreter Preparation Program or permission of Program Director.
Course Note: IPP250AB may be repeated for credit.
IPP250AC
Special Topics: Interpreter Preparation
3 credit(s) 3 period(s) lecture + lab
Explores a special topic related to interpreter preparation. Topics vary and include concepts relevant to those pursuing career in (American Sign Language) ASL/English Interpretingand Transliterating.
Prerequisites: Acceptance into the Interpreter Preparation Program or permission of Program Director.
Course Note: IPP250AC may be repeated for credit.

## ITS - Information Technology Security

## ITS110

## Information Security Fundamentals

3 credit(s) 4 period(s) lecture + lab
Fundamental concepts of information technology security. Topics include authentication methods, access control, cryptography, Public Key Infrastructure (PKI), network attack and defense methods, hardening of operating systems and network devices, securing remote access and wireless technologies and securing infrastructures and topologies. Emphasis on hands-on labs in both the Windows and Linux environments. Builds on thorough understanding of Transmission Control Protocol/Internet Protocol (TCP/IP) and security concepts and Microsoft (MS) Windows and Linux Administration. Prerequisites: A grade of C or better in CIS126DL, or CIS126RH, or permission of Program Director. Corequisites: BPC270 or MST150++.

ITS120
Legal, Ethical and Regulatory Issues
3 credit(s) 3 period(s) lecture
Exploration of legal and ethical issues unique to information security. Analysis of professional ethical codes and their application to information security practitioners. Federal and state laws as they relate to information security. Prerequisites: None.

## ITS240

## Ethical Hacking and Network Defense

3 credit(s) 4 period(s) lecture + lab
Preparation for the EC-Council Certified Ethical Hacking examination. In-depth exploration of how to effectively protect computer networks from risks ranging from malicious infiltration to cyber-warfare. Includes examination of ethical hacking, relevant tools and methodologies, and its importance to network security. Resources to identify new computer network vulnerabilities and counter security strategies will be discussed as well as an overview of relevant computer crime laws and penalties. Prerequisites: A grade of C or better in ITS110, or CNT205, or CIS270, or CIS271DB, or CIS272DB, or permission of Instructor.

## ITS291

## Computer Forensics Foundations

4 credit(s) 5 period(s) lecture + lab
Development of foundational computer forensic skills. Introduction to preserving, identifying, extracting, interpreting, and documenting computer data as part of a forensically sound analysis. Examination of the physical and logical structure of hard drives. Study of the logical structure of Windows-based file systems and common applications. Introduction to the logical structure of Unix/Linux-based file systems and common applications of commercial forensic tools. Prerequisites: A grade of C or better in BPC170 and ITS110 or permission of Instructor.

## ITS292

## Advanced Computer Forensics

4 credit(s) 5 period(s) lecture + lab
Advanced computer forensics analysis techniques with commercial tools. Introduction to opensource forensic tools. Emphasis on data recovery from complex applications and media types. Study of the logical structure of Unix/Linux-based file systems. Advanced search techniques. Analysis of unallocated space, compound files, and NTFS artifacts. Prerequisites: A grade of C or better in

ITS291 or permission of Instructor.

## LAS - Paralegal Studies

LAS101
Introduction to Law
3 credit(s) 3 period(s) lecture
Legal terminology and basic legal principles in the areas of tort, contract, and criminal law.
Interrelationships among lawyers, the court system, and law enforcement and administrative agencies.
Development of a case for trial, adjudication, and post-verdict procedures in the civil and criminal systems. Prerequisites: None.

LAS107
The Paralegal Profession
3 credit(s) 3 period(s) lecture
Focus on the role, responsibilities, and ethical standards of a paralegal. Provides an overview of the legal system and the role of the paralegal in the legal system. Emphasis on professional development and jobsearch strategies. Prerequisites: None.

## LAS109

## Civil Procedures I

3 credit(s) 3 period(s) lecture
Pretrial procedural issues in both Arizona and the federal system. Emphasis on Arizona Rules of Civil Procedure 1-37, 41, 55, 56, and 72-76. Coverage of applicable time limits, filing requirements, and proficiency in locating appropriate provisions in the Arizona Rules of Civil Procedure. Drafting of pleadings and motions and the application of procedural rules pertinent to the early stages of civil litigation. Prerequisites: Acceptance into the Paralegal Studies program. A grade of C or better required in all Prerequisites. Prerequisites or Corequisites: LAS101 and LAS107 and (BPC110 or CIS105 or permission of Program Director).

LAS110

## Civil Procedures II

3 credit(s) 3 period(s) lecture
Application of the procedural aspects of discovery, trial preparation, and post-trial work as part of a litigation team. Emphasis on practical concerns, such as interviewing of witnesses; preparation of discovery documents, exhibits, and transmittal memoranda; summarizing and indexing depositions; organization of files; preparation of trial notebooks; and participation in a mock trial. Prerequisites: A grade of C or better in LAS109 and (BPC110 or CIS105 or permission of Program Director).

LAS115
Criminal Trial Procedure
3 credit(s) 3 period(s) lecture
Procedural aspects of the criminal trial process in Arizona state courts from preliminary proceedings through trial. Emphasis on application of the rules of criminal procedure and preparation of common trial documents by paralegals. Documents include the charging instrument, pre-trial motions, and jury instructions. Prerequisites: A grade of C or better in LAS109 and (BPC110 or CIS105 or permission of Program Director).

LAS131
Legal Writing
3 credit(s) 3 period(s) lecture

The use of proper grammar, punctuation, and spelling in the construction of sentences and the development of paragraphs. Use of case briefs to study effective writing and analytical techniques. Analysis and application of the writing process to produce well-written documents commonly used in the practice of law. Requisites: A grade of C or better required in all Prerequisites. Prerequisites or Corequisites: LAS109 and (BPC110 or CIS105 or permission of Program Director).

LAS203

## Ethics and Professional Practice

3 credit(s) 3 period(s) lecture
Rules of professional responsibility and ethical requirements with an emphasis on their application to legal assistants. Sources of power to regulate the practice of law. Issues related to unauthorized practice of law. Examination of professionalism in the legal profession. Prerequisites: A grade of C or better in LAS131 and (BPC110 or CIS105 or permission of Program Director).

## LAS204

## Contract Law

3 credit(s) 3 period(s) lecture Examination of contracts and their regulation by the Uniform
Commercial Code. Review and drafting of basic agreements. Prerequisites or Corequisites: A grade of C or better in LAS109 and (BPC110 or CIS105 or permission of Program Director).

## LAS208

## Probate

3 credit(s) 3 period(s) lecture
Emphasis on various ways in which property can be held and passed on. Requirements for valid wills and trusts. Steps involved in estate administration and appropriate forms to be used. Includes drafting basic wills and simple trusts. Prerequisites: A grade of C or better in LAS109 and (BPC110 or CIS105 or permission of Program Director).

LAS211
Legal Research
3 credit(s) 3 period(s) lecture
Use of print and electronic media to locate public documents, statutes, administrative regulations, and cases from county, state, and federal jurisdictions. Reading and interpreting research results.
Shepardizing. Use of proper citation forms. Prerequisites or Corequisites: A grade of C or better in LAS109 and (BPC110 or CIS105 or permission of Program Director).

LAS212
Tort Law

## 3 credit(s) 3 period(s) lecture

Basic elements of negligence, strict liability, intentional torts; defenses; damages; insurance coverage. Evaluation of records and personal injury claims; review of insurance policies; settlement brochure; preparation of case intake memorandum. Prerequisites: A grade of C or better in LAS109 and (BPC110 or CIS105 or permission of Program Director).

## LAS214

## Business Organizations

3 credit(s) 3 period(s) lecture
Analysis and evaluation of business organizations with practical application of the law to analyze the utility, form, and function of Sole Proprietorships, General Partnerships, Limited Partnerships, Limited

Liability Companies, and Corporations. Preparation of documents to create the most effective and feasible business organization under a given set of circumstances. Prerequisites: A grade of C or better in LAS109 and (BPC110 or CIS105 or permission of Program Director).

LAS217
Family Law
3 credit(s) 3 period(s) lecture
Legal analysis of marriage, dissolution of marriage, parental rights and duties; pleading and practice. Prerequisites: A grade of C or better in LAS109 and (BPC110 or CIS105 or permission of Program Director).

LAS220

## Paralegal Internship Seminar

## 1 credit(s) 1 period(s) lecture

Coordinates on-the-job experiences with interpersonal relations, communications, time-management, and case-management skills. Provides opportunity to discuss problems encountered during internship. Prerequisites: A grade of C or better in LAS203, LAS211, (LAS204 or LAS212), and (BPC110 or CIS105 or permission of Program Director). Corequisites: LAS221AB.

## LAS221AB

## Paralegal Internship

$\mathbf{2}$ credit(s) $\mathbf{1 0}$ period(s) lab
Field work through placement at a law firm or other law-related organization where student will gain experience working in a legal setting. Supervision and evaluation by on-the-job supervisor as well as college program director. Prerequisites: Permission of Program Director. Corequisite: LAS220. Course Notes: LAS221AB requires a minimum of 160 hours of field experience in a legal setting.

LAS225
Legal Research, Analysis, and Writing
3 credit(s) 3 period(s) lecture
Integration and further development of legal research and writing skills with an emphasis on critical thinking, issue analysis, and motion practice. Focus on integrating research, writing, and legal argument development. Prerequisites: A grade of C or better in LAS131 and LAS211 and (BPC110 or CIS105 or permission of Program Director).

LAS229

## Litigation Technologies

3 credit(s) 3 period(s) lecture
Use of presentation software; use of timekeeping, calendaring, and docketing software; use of litigation support software to organize case files; use of electronic trial presentation software in an electronic courtroom; ethical issues. Prerequisites: A grade of C or better in LAS110 and (BPC110 or CIS105 or permission of Program Director).

## LAS261

## Bankruptcy

3 credit(s) 3 period(s) lecture
Examination of bankruptcy laws and procedures and the role of paralegals in bankruptcy practice, including the commencement of a case, preparation of common forms, review of bankruptcy litigation including contested matters and adversary proceedings, and debtors' and creditors' rights
and obligations. Prerequisites: A grade of C or better in LAS109 and (BPC110 or CIS105 or permission of Program Director).

## LAS265

Regulatory Compliance
3 credit(s) 3 period(s) lecture Examination of, and requirements for, organizations maintaining compliance with regulatory schemes. Emphasis on federal regulations and the role of non-lawyer personnel, such as paralegals, in obtaining, organizing, analyzing, and presenting recommendations for acting on factual information and legal research related to regulatory requirements. Prerequisites: A grade of C or better in LAS109 and (BPC110 or CIS105 or permission of Program Director).

LAS280
Paralegal Studies Portfolio Capstone 1 credit(s) 1 period(s) lecture
Demonstration of acquired skills and knowledge through review, revision, and supplementation of electronic portfolio containing evidence of program competencies; preparation, revision, and review of work product samples to facilitate the transition from student to entry-level paralegal. Requisites: A grade of C or better required in all Prerequisites. Prerequisites: LAS110, LAS203, LAS204, LAS214 and (BPC110 or CIS105 or permission of Program Director). Prerequisites or Corequisites: (LAS225 and LAS229) or permission of Program Director.

## LBA - Laboratory Assisting

## LBA155

Laboratory Assisting: Principles and Procedures
5 credit(s) 5 period(s) lecture + lab Overview of laboratory services, laboratory professionals, and the role of a laboratory assistant. Principles and procedures for pre- analytical processing of laboratory specimens. Performance of specimen processing, pre-analytical processes, and point-of-care testing. Application of quality assurance, quality control, quality management principles, infection control, and laboratory safety. Use of laboratory supplies, instrumentation, and information systems. Performing clerical and computer functions using medico-legal guidelines for documentation. Prerequisites: (Acceptance into the Laboratory Assisting program), (a grade of C or better in PLB109 and PLB111), and permission of Program Director.

## LBA158

## Laboratory Assisting Practicum

 2 credit(s) 9 period(s) labPracticum in laboratory assisting based in healthcare facilities or reference laboratories. Performance of clinical skills for pre- analytical processing of laboratory specimens, initial testing phases, and point- ofcare testing using laboratory instrumentation, information systems, and supplies. Application of quality assurance, quality control, infection control, and laboratory safety. Performance of clerical and computer functions using medico-legal guidelines for documentation. Use of professional and ethical conduct in all interpersonal communications. Prerequisites: A grade of C or better in LBA155 and permission of Program Director.

## LDR - Leadership

## LDR101

## Emerging Leaders I

2 credit(s) 2 period(s) lecture
Concepts and application of leadership skills and service learning to promote social change and value clarification. Development of organizational leadership skills through experiential learning.
Prerequisites: None.

## LDR102

## Emerging Leaders II

2 credit(s) 2 period(s) lecture
Focus on implementing collaborative practices and organizational leadership skills to promote positive social change. Apply value-based leadership behavior in diverse settings. Prerequisites: A grade of C or better in LDR101 or permission of Instructor.

## MAS - Medical Assisting

MAS101<br>Introduction to Medical Assisting<br>3 credit(s) 3 period(s) lecture

Introduction to professional skills required in the field of medical assisting. Development of professional behaviors and expectations; in addition to but not limited to communication and mathematical calculations used. Prerequisites: None. Course Notes: Students must meet all the competencies to continue the Medical Assisting program.

## MAS102

## Fundamentals of Administrative Medical Assisting 6 credit(s) 6 period(s) lecture

Explores fundamental administrative procedures in ambulatory healthcare settings, such as appointment scheduling, telephone etiquette, and patient rights. Emphasis on a basic understanding of medical law and ethics and Health Insurance Portability and Accountability Act (HIPAA) regulations. Provides a basic overview of insurance, coding, billing, and electronic health records (EHR) as they relate to medical assisting. Prerequisites: A grade of C or better in MAS101.

## MAS103

Basic Anatomy, Physiology, and Medical Terminology
3 credit(s) 3 period(s) lecture
Provides an overview of medical terminology and the word parts used in building and analyzing terms used in healthcare, including abbreviations and symbols. A body-systems approach is used for terms relating to anatomy, physiology, and pathophysiology. Prerequisites: None.

MAS104
Medical Administrative Assisting Practicum
4 credit(s) 4 period(s) lab
Students will apply the medical administrative concepts learned in previous program courses.
Prerequisites: A grade of C or better in HCC145 or MAS103. Course Notes: All health and safety documents must remain current and in good standing, especially TB screening and CPR BLS provider, throughout the MAS104 Practicum.

## MAS200

Medical Conversions and Calculations for Medical Assisting 2 credit(s) 2 period(s) lecture
Introduction to mathematical calculations specific to the clinical practice of medical assistants.
Application of skills include conversions of measurements in the metric system, temperature conversions, military-standard time conversions, and medication dosage equivalents and calculations. Prerequisites: A grade of C or better in MAS104. Course Notes: MAS104 is graded using the Pass/Fail ( $\mathrm{P} / \mathrm{Z}$ ) grading. Students must meet all the competencies to continue the Medical Assisting program. MAS200 may be repeated for a total of four (4) credit hours.

## MAS201

## Fundamentals of Clinical Medical Assisting

6 credit(s) 7.5 period(s) lec + lab
Provides a foundation for clinical lab skills related to medical assisting. This hands-on course will explore surgical procedures, vital signs, sterilization, electrocardiogram (EKG), and emergency
situations in the ambulatory setting. Includes a review of the steps involved in basic first aid and healthcare provider cardiopulmonary resuscitation (CPR). Prerequisites: A grade of C or better in MAS200 and acceptance into the Clinical Medical Assisting or Medical Assisting program.

MAS202
Laboratory Testing in Ambulatory Healthcare Settings
6 credit(s) 7.5 period(s) lec + lab
Introduction to basic Point of Care Testing (POCT), specimen collection, and handling. Theory and practice of basic phlebotomy and application of fundamental phlebotomy procedures and techniques in a clinical ambulatory healthcare setting. Prerequisites: A grade of C or better in MAS201. Course Notes: Students must pass all lab competencies and the clinical final exam with a minimum of $85 \%$ to pass the course. (MAERB Policy 215)

MAS203
Medical Assisting Pharmacology
6 credit(s) 7.5 period(s) lec + lab
Explores principles of basic pharmacology and medication administration. Focus on responsibility and appropriate medication protocols as they relate to medical assisting. Prerequisites: A grade of C or better in MAS201 and MAS202. Course Notes: Students must pass all dosage calculation tests and the clinical final exam with a $100 \%$ to pass the course.

MAS204

## Clinical Medical Assisting Practicum

4 credit(s) 9 period(s) lab
Application of clinical medical assisting concepts while interacting with patients at a clinical practicum site. Prerequisites: A grade of C or better in MAS203. Course Notes: All health and safety documents must remain current and in good standing, especially TB screening and CPR BLS provider, throughout the MAS204 Practicum.

MAS205
Medical Assisting Program Review
2 credit(s) 2 period(s) lecture
Prepares students to apply for the clinical credentialing examination and for entry into the medical assisting industry. Prerequisites: A grade of C or better in MAS203.

## MAT - Mathematics

The following courses require a graphing calculator: MAT112, MAT121, MAT141, MAT142, MAT151, MAT152, MAT182, MAT187, MAT206, MAT212, MAT213, MAT217, MAT218, MAT220, MAT221, MAT225, MAT230, MAT231, MAT240, MAT256, MAT257, and MAT276.

## MAT103

## College Mathematics Prep

3 credit(s) 3 period(s) lecture
Foundational knowledge of topics necessary for success in College Mathematics. Emphasis on understanding mathematical concepts and their applications. Topics include number sense, proportional reasoning, numerical and algebraic expressions, linear equations, and representations of data. Prerequisites: None. Course Notes: MAT103 students may receive credit for only one of the following: (MAT052 and MAT053 and MAT055) or MAT103. This course is designed for students that do not qualify for MAT141 or MAT142, but intend to complete MAT14+ College Mathematics for their degree path. This course covers topics from basic arithmetic and introductory algebra.

## MAT108

## Tutored Mathematics

## 2 credit(s) 2 period(s) lecture

Structured tutorial assistance and math study skills to help students achieve success in a mathematics course in which they are concurrently enrolled. Mathematics study skills emphasized. Prerequisites: None. Corequisites: MAT051 or higher OR MAT15+, OR permission of Department or Division Chair.

## MAT112

## Mathematical Concepts and Applications 3 credit(s) 3 period(s) lecture

A problem-solving approach to mathematics as it applies to real-life situations. Development, use and communication of mathematical concepts and applications that relate to measurement, percentage, practical geometry, statistics, finance, and unit conversions. Prerequisites: A grade of C or better in each of the following courses: (MAT051 and MAT052 and MAT053), OR a grade of C or better in MAT08+, OR an appropriate district placement.

## MAT114

## College Algebra Prep <br> 4 credit(s) 4 period(s) lecture

Proper use of function notation, average rate of change of functions, and evaluating arithmetic and algebraic expressions. Analysis of linear and quadratic equations, and their applications; graphs of linear and quadratic functions; operations on polynomial expressions. Prerequisites: None. Course Notes: MAT114 students may receive credit for only one of the following: MAT114, OR MAT115.

## MAT121

## Intermediate Algebra

4 credit(s) 4 period(s) lecture
Analysis of rational, radical, quadratic and exponential equations, functions and applications; graphs of radical, quadratic and exponential functions; operations on polynomial, rational, and radical expressions.
Prerequisites: A grade of C or better in each of the following courses: (MAT055 and MAT056 and MAT057), OR a grade of C or better in MAT09+, OR an appropriate district placement. Course Note:

MAT121 students may receive credit for only one of the following: MAT120, OR MAT121, OR MAT122 OR MAT126.

## MAT141 MAT 1142 sunim

## College Mathematics

4 credit(s) 4 period(s) lecture
Working knowledge of college-level mathematics and its applications to real-life problems. Emphasis on understanding mathematical concepts and their applications. Topics include proportional reasoning, modeling, finance, probability, and statistics. Prerequisites: An appropriate District placement, or a grade of C or better in (MAT052, MAT053, and MAT055), or (MAT055, MAT056, and MAT057), or MAT085, or MAT09+, or MAT103, or MAT114, or MAT115, or MAT12+. Course
Notes: MAT141 students may receive credit for only one of the following: MAT140, MAT141, MAT142, MAT145, or MAT146. Students do not need to take all MAT classes in numerical order; please consult with an advisor for the appropriate math sequence for student educational goals.

MAT142 MAT 1142 sund

## College Mathematics

3 credit(s) 3 period(s) lecture
Working knowledge of college-level mathematics and its applications to real-life problems. Emphasis on understanding mathematical concepts and their applications. Topics include proportional reasoning, modeling, finance, probability, and statistics. Prerequisites: An appropriate District placement, or a grade of C or better in (MAT052, MAT053, and MAT055), or (MAT055, MAT056, and MAT057), or MAT085, or MAT09+, or MAT103, or MAT114, or MAT115, or MAT12+. Course Notes: MAT142 students may receive credit for only one of the following: MAT140, MAT141, MAT142, MAT145, or MAT146. Students do not need to take all MAT classes in numerical order; please consult with an advisor for the appropriate math sequence for student educational goals.

## MAT145 MAT 1142 sunm

## College Mathematics with Review

## 5 credit(s) 5 period(s) lecture

Working knowledge of college-level mathematics and its applications to real-life problems. Emphasis on understanding mathematical concepts and their applications. Topics include proportional reasoning, modeling, finance, probability, and statistics, along with review of arithmetic and introductory algebra, as needed. Prerequisites: None. Course Notes: MAT145 students may receive credit for only one of the following: MAT140, MAT141, MAT142, MAT145, or MAT146. This course is designed for students that do not qualify for MAT141 or MAT142, but intend to complete MAT14+ College Mathematics for their degree path. Review of Basic Arithmetic and Introductory Algebra as needed.

## MAT151 MAT 1151 suñ

College Algebra/Functions
4 credit(s) 4 period(s) lecture
Analysis and interpretation of the behavior and nature of functions including linear, quadratic, higherorder polynomials, rational, exponential, logarithmic, power, absolute value, and piecewise-defined functions; systems of equations, using multiple methods including matrices, and modeling and solving real world problems. Prerequisites: A grade of C or better in MAT095, or MAT096, or MAT114, or MAT115, or MAT12+, OR an appropriate district placement for MAT15+, OR permission of Department or Division Chair. Course Notes: Students may receive credit for only one of the following: MAT150, OR MAT151, OR MAT152, OR MAT155, OR MAT156.

## MAT152 MAT 1151 sunis <br> College Algebra/Functions <br> 3 credit(s) 3 period(s) lecture

Analysis and interpretation of the behavior and nature of functions including linear, quadratic, higherorder polynomials, rational, exponential, logarithmic, power, absolute value, and piecewise-defined functions; systems of equations, using multiple methods including matrices, and modeling and solving real world problems. Prerequisites: A grade of C or better in MAT095, or MAT096, or MAT114, or MAT115, or MAT12+, OR an appropriate district placement for MAT15+, OR permission of Department or Division Chair. Course Notes: Students may receive credit for only one of the following: MAT150, OR MAT151, OR MAT152, OR MAT155, OR MAT156.

## MAT155 MAT 1151 sunim

## College Algebra/Functions with Review

5 credit(s) 5 period(s) lecture
Analysis and interpretation of the behavior and nature of functions including linear, quadratic, higherorder polynomials, rational, exponential, logarithmic, power, absolute value, and piecewise-defined functions; systems of equations, using multiple methods including matrices, and modeling and solving real world problems. Prerequisites: A grade of C or better in (MAT055, MAT056, and MAT057), or MAT09+, or MAT114, or MAT115, or an appropriate district placement for MAT120 or MAT121 or MAT122, or permission of Department/Division Chair. Course Notes: Students may receive credit for only one of the following: MAT150, OR MAT151, OR MAT152, OR MAT155, OR MAT156. This course is designed for students that do not qualify for MAT150 or MAT151 or MAT152, but intend to complete MAT15+ College Algebra for their degree path. Review of MAT12+ Intermediate Algebra as needed.

## MAT182

## Plane Trigonometry

## 3 credit(s) 3 period(s) lecture

A study of measures of angles, properties of graphs of trigonometric functions, fundamental identities, addition and half- angle formulas, inverse trigonometric functions, solutions of trigonometric equations, complex numbers and properties of triangle solution. Prerequisites: A grade of C or better in MAT15+, OR an appropriate district placement. Corequisites: MAT15+. Course Notes: MAT182 students may receive credit for only one of the following: MAT182 or MAT187.

## MAT187 MAT 1187 Sunim

## Precalculus

5 credit(s) 5 period(s) lecture
Topics in algebra and trigonometry in preparation for calculus. Prerequisites: A grade of C or better in MAT 15+, OR an appropriate district placement. Course Notes: Students may receive credit for only one of the following: MAT182 OR MAT187.

MAT206 MAT 1160 sunm
Elements of Statistics
3 credit(s) 3 period(s) lecture
Basic concepts and applications of statistics, including data description, estimation and hypothesis tests.
Prerequisites: A grade of C or better in MAT14+, or MAT15+, or MAT187, or equivalent, or satisfactory District placement, or permission of Department or Division Chair.

## MAT212 MAT 2212 Sunciv

## Brief Calculus

3 credit(s) 3 period(s) lecture
Introduction to the theory, techniques and applications of the differential and integral calculus of functions with problems related to business, life, and the social sciences. Prerequisites: A grade of C or better in MAT15+, or MAT187, or an appropriate District placement. Course Notes: Students may receive credit for only one of the following: MAT212 or MAT213.

MAT213 MAT 2212 SUN解
Brief Calculus
4 credit(s) 4 period(s) lecture
Introduction to the theory, techniques, and applications of the differential and integral calculus of functions with problems related to business, life, and the social sciences. Prerequisites: A grade of C or better in MAT15+, or MAT187, or an appropriate District placement. Course Note: Students may receive credit for only one of the following: MAT212 or MAT213.

MAT217

## Mathematical Analysis for Business

3 credit(s) $\mathbf{3}$ period(s) lecture
An introduction to the mathematics required for the study of business. Includes multivariable optimization, Lagrange multipliers, linear programming, linear algebra, probability, random variables, discrete and continuous distributions. Prerequisites: A grade of C or better in MAT212, or MAT213, or MAT220, or MAT221. Course Notes: Students may receive credit for only one of the following: MAT217 or MAT218.

MAT218
Mathematical Analysis for Business
4 credit(s) 4 period(s) lecture
An introduction to the mathematics required for the study of business. Includes multivariable optimization, Lagrange multipliers, linear programming, linear algebra, probability, random variables, discrete and continuous distributions. Prerequisites: A grade of C or better in MAT212, or MAT213, or MAT220, or MAT221. Course Notes: Students may receive credit for only one of the following: MAT217 or MAT218.

MAT220 MAT 2220 sumim
Calculus with Analytic Geometry I
5 credit(s) 5 period(s) lecture
Limits, continuity, differential and integral calculus of functions of one variable. Prerequisites: A grade of C or better in MAT187, or an appropriate District placement. Course Note: Students may receive credit for only one of the following: MAT220 or MAT221.

## MAT221 MAT 2220 बUNM

Calculus with Analytic Geometry I
4 credit(s) 4 period(s) lecture
Limits, continuity, differential and integral calculus of functions of one variable. Prerequisites: A grade of C or better in MAT187, or an appropriate District placement. Course Notes: Students may receive credit for only one of the following: MAT220 or MAT221.

## Elementary Linear Algebra

3 credit(s) 3 period(s) lecture
Introduction to matrices, systems of linear equations, determinants, vector spaces, linear transformations and eigenvalues. Emphasizes the development of computational skills. Prerequisites: Grade of C or better in MAT212 or MAT220, or MAT221, or equivalent.

## MAT227 MAT 2227 sunm

## Discrete Mathematical Structures

3 credit(s) 3 period(s) lecture
Course emphasizes discrete mathematics connections to computer science by exposing students to foundational concepts of set theory, logic, counting, induction, proof techniques, graph theory, and algorithms. Prerequisites: A grade of C or better in MAT212, or MAT213, or MAT220, or MAT221, or permission of Department/ Division Chair.

MAT230 MAT 2230 बUN:
Calculus with Analytic Geometry II
5 credit(s) 5 period(s) lecture
Techniques of integration for both proper and improper integrals with applications to the physical and social sciences, elements of analytic geometry, and the analysis of sequences and series. Prerequisites: Grade of C or better in MAT220 or MAT221 or equivalent. Course Note: Student may receive credit for only one of the following: MAT230 or MAT231.

## MAT231 MAT 2230 Sunje

Calculus with Analytic Geometry II
4 credit(s) 4 period(s) lecture
Techniques of integration for both proper and improper integrals with applications to the physical and social sciences, elements of analytic geometry, and the analysis of sequences and series. Prerequisites: Grade of C or better in MAT220 or MAT221 or equivalent. Course Note: Student may receive credit for only one of the following: MAT230 or MAT231.

MAT240

## Calculus with Analytic Geometry III

5 credit(s) 5 period(s) lecture
Multivariate calculus including vectors, vector-valued functions, partial differentiation, multiple integration, and an introduction to vector fields. Prerequisites: Grade of C or better in MAT230 or MAT231. Course Note: Student may receive credit for only one of the following: MAT240 or MAT241.

MAT241 MAT 2241 sun
Calculus with Analytic Geometry III
4 credit(s) 4 period(s) lecture
Multivariate calculus including vectors, vector-valued functions, partial differentiation, multiple integration, and an introduction to vector fields. Prerequisites: Grade of C or better in MAT230 or MAT231. Course Note: Student may receive credit for only one of the following: MAT240 or MAT241.

MAT256
Investigating Quantity: Number, Operations and Numeration Systems
4 credit(s) 4 period(s) lecture

Explore number, numeration systems and operations on numbers. Techniques of problem solving with an emphasis on exploring a variety of strategies. Use a variety of visualization techniques to develop a conceptual understanding of these topics. Prerequisites: A grade of C or better in (MAT15+ or higher), or (MAT12+ and MAT14+), or [MAT14+ and (MAT114 or MAT115)], or (MAT14+ and an appropriate District placement into MAT150, MAT151, or MAT152), or permission of Department/ Division Chair. Course Notes: MAT256 is designed to meet requirements for prospective elementary education teachers.

## MAT257

Investigating Geometry, Probability and Statistics
4 credit(s) 4 period(s) lecture
Explores geometry, measurement, probability and statistics. Uses visualization, technologies, problem solving, reasoning and proof to develop a conceptual understanding of these topics. Prerequisites: A grade of C or better in MAT256 OR permission of Department/ Division Chair. Course Notes: MAT257 is designed to meet the requirements for prospective elementary education teachers.

## MAT276 MAT 2262 sunm

Modern Differential Equations
4 credit(s) 4 period(s) lecture
Introduces differential equations, theoretical and practical solution techniques with applications. Problem solving using MATLAB. Prerequisites: A grade of C or better in MAT230 or MAT231 or permission of Department/Division Chair. Course Notes: Students may receive credit for only one of the following: MAT276 or MAT277.

## MAT298AA-AC

## Special Projects

$\mathbf{1 - 3}$ credit(s) $\mathbf{1 - 3}$ period(s) lab
Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance. Professional-type facilities and equipment available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development.
Prerequisites: Permission of Department/ Division Chair. Course Notes: MAT298AC may be repeated for a total of six (6) credit hours.

## MDL - Medical Laboratory Science

## MDL190

## Clinical Laboratory Operations

2 credit(s) 2 period(s) lecture
Overview of laboratory services, laboratory professionals, and the role of a medical laboratory technician (clinical laboratory technician). Understanding of health care reform, reimbursement, cost analysis, coding, credentialing, accreditation, and regulatory agencies. Emphasis on process improvement, laboratory mathematics, statistics, documentation, medico-legal implications, education, management and personnel, and specimen integrity. Application of pre-analytical, analytical, and postanalytical principles, infection control, and laboratory safety. Recognition of acceptable quality control and quality management principles, phlebotomy principles, and lab equipment, glassware, labware, and water purification. Includes information systems and information management in laboratories. Importance of professional growth, communicating with the patient and public, and ethical conduct.
Prerequisites: Acceptance into the Medical Laboratory Science program and permission of Program Director.

## MDL240

## Clinical Urinalysis and Body Fluid Analysis

3 credit(s) 5 period(s) lecture + lab
Examines anatomy and physiology of the renal system, renal diseases, and renal function tests. Emphasis on interpretation, evaluation, and reporting of urinalysis and body fluid results, urine and body fluid collection techniques, types, specimen handling and preservation, and instrument calibration, maintenance, and quality control. Application of body fluid analyses, and chemical and microscopic analysis of urine. Prerequisites: A grade of C or better in MDL190, acceptance into the Medical Laboratory Science program, and permission of the Program Director.

## MDL241

## Practicum: Clinical Urinalysis and Body Fluid Analysis 1 credit(s) 6 period(s) lab

Practicum experience in clinical urinalysis and body fluid analysis based in healthcare facilities or reference laboratories. Assessment of anatomy and physiology of the renal system, renal diseases, and renal function tests. Performance of interpretation, evaluation, and reporting of urinalysis and body fluid results, urine and body fluid collection techniques, types, specimen handling and preservation, and instrument calibration, maintenance, and quality control. Performance of body fluid analyses and chemical and microscopic analysis of urine. Prerequisites: A grade of C or better in MDL240, acceptance into the Medical Laboratory Science program, and permission of the Program Director.

## MDL242

## Clinical Hematology and Hemostasis

6 credit(s) 9 period(s) lecture + lab
Examines the anatomy and physiology of the hematopoietic and hemostasis systems, hematology and hemostasis case studies, anemia categories, and thrombocyte, hemostatic, and malignant and nonmalignant leukocyte disorders. Emphasis on interpreting, evaluating, and reporting hematology and hemostasis results, anticoagulant therapy, morphology, peripheral smear correlation with analyzer results and patient condition, erythrocyte indices, collection techniques, specimen handling, calibration, and quality control. Methods of analysis on hematology and hemostasis analyzers, and preventive maintenance. Prerequisites: A grade of C or better in MDL240, acceptance into the Medical Laboratory Science program, and permission of the Program Director.

MDL243

## Practicum: Clinical Hematology and Hemostasis

1 credit(s) 6 period(s) lab
Practicum experience in clinical hematology and hemostasis based in healthcare facilities or reference laboratories. Assessment of the anatomy and physiology of the hematopoietic and hemostasis systems, hematology case studies, anemia categories, and thrombocyte, malignant and nonmalignant leukocyte disorders. Application of interpreting, evaluating, and reporting hematology results, morphology, peripheral smear correlation with analyzer results, erythrocyte indices, collection techniques, specimen handling, calibration, and quality control. Emphasis on hematology and hemostasis analyzers, and preventive maintenance. Perform hematology and hemostasis analyses. Prerequisites: A grade of C or better in MDL242, acceptance into the Medical Laboratory Science program, and permission of the Program Director.

## MDL244

## Clinical Immunohematology and Immunology

## 6 credit(s) 9 period(s) lecture + lab

Principles of immunity and immunologic testing. Causes of disorders of the immune system. Study of blood group antigens, antibodies, and genetics. Understanding of donor blood collection, component preparation, and transfusion therapies. Performance of testing techniques and evaluation of data. Prerequisites: A grade of C or better in MDL242, acceptance into the Medical Laboratory Science program, and permission of the Program Director.

## MDL245

## Practicum: Clinical Immunohematology and Immunology 1 credit(s) 6 period(s) lab

Practicum in immunohematology and immunology in healthcare facilities or reference laboratories. Performance of clinical skills in immunity and immunologic testing, testing for disorders of the immune system, blood group antigens, antibodies, and genetics. Observation of donor blood collection, component preparation, and transfusion therapies. Performance of testing techniques and evaluation of data. Prerequisites: A grade of C or better in MDL244, acceptance into the Medical Laboratory Science program, and permission of the Program Director.

## MDL246

## Clinical Microbiology <br> 6 credit(s) 9 period(s) lecture + lab

Emphasis on microbial infectious and bioterrorism agents, classification, morphology, phenotyping, diseases, biotechnology and molecular technology, quality assurance and quality control, epidemiological significance, and regulatory standards. Application of antimicrobial, biochemical, and differential testing, drug resistance, selection, inoculation and incubation of culture media, isolation techniques, cell culture and viral detection tests, and macroscopic and microscopic evaluation. Emphasis on staining, rapid and commercial testing methods, safety precautions, specimen collection, handling, storage, and disposal of biological material, pretreatment, decontamination, and concentration techniques, specimen type, source, and common microbial flora, specimen acceptability, and instrumentation. Prerequisites: A grade of C or better in MDL244, acceptance into the Medical Laboratory Science program, and permission of the Program Director.

## MDL247

Practicum: Clinical Microbiology

## 1 credit(s) 9 period(s) lab

Practicum experience in clinical microbiology based in healthcare facilities or reference laboratories. Emphasis on microbial infectious and bioterrorism agents, classification, morphology, phenotyping, diseases, biotechnology and molecular technology, quality assurance and quality control, epidemiological significance, and regulatory standards. Application of antimicrobial, biochemical, and differential testing, drug resistance, selection, inoculation and incubation of culture media, isolation techniques, cell culture and viral detection tests, and macroscopic and microscopic evaluation. Procedures for staining, rapid and commercial testing methods, safety precautions, specimen collection, handling, storage, and disposal of biological material, pretreatment, decontamination, and concentration techniques, specimen type, source, and common microbial flora, specimen acceptability, and instrumentation. Prerequisites: A grade of C or better in MDL246, acceptance into the Medical Laboratory Science program, and permission of the Program Director.

## MDL248

## Clinical Chemistry

6 credit(s) 9 period(s) lecture + lab
Principles and procedures of clinical chemistry and testing for diseases of protein, nonprotein nitrogen compounds, lipid, glucose, bilirubin, liver disease, cardiac and endocrine function, toxicology, therapeutic drug monitoring, acid base balance, electrolytes, and trace elements.Emphasis on quality assurance, quality control, mathematics and statistical analysis, specimen collection, and preanalytical processes. Study of immunoassays, nucleic acid probes, viral and tumor markers, automation of analytical techniques, spectrophotometry, genetic diseases and inborn errors of metabolism, and point-of- care testing. Use of reagents, equipment, supplies, and units of measure. Prerequisites: A grade of C or better in MDL246, acceptance into the Medical Laboratory Science program, and permission of the Program Director.

## MDL249

## Practicum: Clinical Chemistry <br> 1 credit(s) 9 period(s) lab

Practicum in clinical chemistry based in healthcare facilities or reference laboratories. Performance of clinical skills in clinical chemistry and testing for diseases of protein, nonprotein nitrogen compounds, lipid, glucose, bilirubin, liver disease, cardiac and endocrine function, toxicology, therapeutic drug monitoring, acid base balance, electrolytes, genetic diseases and inborn errors of metabolism, and trace elements. Application of quality assurance, quality control, mathematics and statistical analysis, specimen collection, and preanalytical processes. Performance of immunoassays, nucleic acid probes, viral and tumor markers, automation of analytical techniques, spectrophotometry, and point-of-care testing. Use of reagents, equipment, supplies, and units of measure. Prerequisites: A grade of C or better in MDL248, acceptance into the Medical Laboratory Science program, and permission of Program Director.

## MDL252

## Clinical Preparation I

## 0.5 credit(s) 2.5 period(s) lecture + lab

Examines clinical laboratory testing in a simulated laboratory environment. Emphasis on interpretation, evaluation, and reporting of a variety of laboratory results, and includes instrument calibration, maintenance, and quality control. Prerequisites: A grade of C or better in MDL244, acceptance into the Medical Laboratory Science program, and permission of Program Director.

## MDL263

## Clinical Preparation II

0.5 credit(s) 2.5 period(s) lecture + lab

Continuation of examination of clinical laboratory testing in a simulated laboratory environment. Emphasis on interpretation, evaluation, and reporting of a variety of laboratory results, and includes instrument calibration, maintenance, and quality control. Prerequisites: A grade of C or better in MDL248, acceptance into the Medical Laboratory Science program, and permission of Program Director.

## MDL291

## Medical Laboratory Science Program Capstone

 1 credit(s) 1 period(s) lecturePreparation for the professional practice national examinations. Topics include methodologies, techniques, and problem solving relative to urinalysis; body fluids, hematology, hemostasis, immunohematology, immunology, microbiology, and chemistry. Development of personalized test taking strategies and examination study plan. Prerequisites: (A grade of C or better in MDL247 and MDL249), acceptance into the Medical Laboratory Science program and permission of Program Director.

## MDL295AA

## Special Topics: Medical Laboratory Science

1 credit(s) 2 period(s) lecture + lab
Explores a special topic related to medical laboratory science. Topics vary and include concepts relevant to those advancing or pursuing careers in medical laboratory science. Prerequisites: Permission of Program Director. Course Note: May be repeated for a total of three (3) credit hours.

MDL295AB<br>Special Topics: Medical Laboratory Science 2 credit(s) 3 period(s) lecture + lab<br>Explores a special topic related to medical laboratory science. Topics vary and include concepts relevant to those advancing or pursuing careers in medical laboratory science. Prerequisites: Permission of Program Director. Course Note: May be repeated for a total of six (6) credit hours.

## MDL295AC

Special Topics: Medical Laboratory Science
3 credit(s) 4 period(s) lecture + lab
Explores a special topic related to medical laboratory science. Topics vary and include concepts relevant to those advancing or pursuing careers in medical laboratory science. Prerequisites:
Permission of Program Director. Course Note: May be repeated for a total of six (6) credit hours.

## MGT - Management


#### Abstract

MGT126 Customer Service Skills and Strategies 3 credit(s) 3 period(s) lecture + lab Explores strategies to help improve job performance and develop a service-oriented philosophy. Uses practical training concepts and techniques to demonstrate how superior customer service can lead to competitive advantage and profitability in business. Focuses on both internal and external customers, interactions among people, processes, and systems within the organization and how to integrate these areas into a total quality delivery program. Prerequisites: None.


## MGT147

## Supply Chain Management

3 credit(s) 3 period(s) lecture
Supply chain management, including basic concepts and underlying principles of logistics and inventory management. Prerequisites: None.

## MGT175

## Business Organization and Management

3 credit(s) 3 period(s) lecture
Covers basic principles of managing quality and performance in organizations. Covers management functions: planning, organizing, leading, and controlling. Emphasizes continual improvement, ethics, and social responsibility. Prerequisites: None.

MGT229
Management and Leadership I
3 credit(s) 3 period(s) lecture
Covers management concepts and applications for business, industry, and government organizations.
Prerequisites: None.
MGT230
Management and Leadership II
3 credit(s) 3 period(s) lecture
Includes practical applications of activities, issues and problems related to current managerial and supervisory skills and talents. Prerequisites: A grade of C or better in MGT229 or permission of Department or Division.

MGT251

## Human Relations in Business

3 credit(s) 3 period(s) lecture
Analysis of motivation, leadership, communications, and other human factors. Cultural differences that may create conflict and affect morale within organizations. Prerequisites: None. MGT101, or MGT175, or MGT229 suggested but not required.

## MGT253

## Owning and Operating a Small Business

3 credit(s) 3 period(s) lecture
Starting, organizing, and operating a small business, including location, finance management processes, advertisement and promotion, credit, inventory control and ethics. Prerequisites: None.

MGT270AA<br>Management Internship<br>1 credit(s) 1 period(s) lecture + lab

Management work experience in a business or industry. 80 hours of designated work per credit.
Prerequisites: Permission of Department or Division. Course Notes: MGT270AA may be repeated for a total of three (3) credit hours.

MGT270AB
Management Internship
2 credit(s) 2 period(s) lecture + lab
Management work experience in a business or industry. 80 hours of designated work per credit. Prerequisites: Permission of Department or Division. Course Notes: MGT270AB may be repeated for a total of six (6) credit hours.

MGT270AC
Management Internship
3 credit(s) 3 period(s) lecture + lab
Management work experience in a business or industry. 80 hours of designated work per credit.
Prerequisites: Permission of Department or Division. Course Notes: MGT270AC may be repeated for a total of six (6) credits.

## MGT276

Human Resources Management
3 credit(s) 3 period(s) lecture
Human resource planning, staffing, training, compensating, and appraising employees in organizations. Prerequisites: None. MGT101 or MGT175 or MGT229 suggested, but not required. Course Notes: MGT101 or MGT175 or MGT229 suggested but not required.

## MGT286 <br> Human Resource Employment Management

3 credit(s) 3 period(s) lecture
Techniques and methodology for coordinating and monitoring effective employment selection practices. Includes description of employment functions, staffing analysis, employment recruitment and advertising, applicant screening, interviewing and reference checking, employee selection and placement within a human resources division. Prerequisites: A grade of C or better in MGT276 or permission of department.

## MHL - Music: History/ Literature

MHL140
Survey of Music History
3 credit(s) 3 period(s) lecture
Study of composers, compositions, styles, and periods in music history. Prerequisites: None.

## MHL143

Music in World Cultures
3 credit(s) 3 period(s) lecture
Non-European musical traditions including the study of music in rituals, musical instruments and the impact of cultures on musical styles. Prerequisites: None.

MHL145
American Jazz and Popular Music
3 credit(s) 3 period(s) lecture
The study of cultural and social contributions to the evolution of American jazz and popular music from the mid-1800's to present. Prerequisites: None.

## MHL146

Survey of Broadway Musicals
3 credit(s) 3 period(s) lecture
Survey of Broadway musicals traced from their origins to the present viewed in their cultural, political, and socioeconomic contexts. Emphasis on stylistic periods, composers, lyricists, directors, and choreographers. Prerequisites: None.

## MHL153

Rock Music and Culture
3 credit(s) 3 period(s) lecture
History of Rock music and how cultural, social, political, and economic conditions have shaped its evolution. Prerequisites: None.

## MHL155

Survey of American Music
3 credit(s) 3 period(s) lecture
History of the music of North America from the earliest American Indian music to the present. Introduction to the musical trends, composers, socioeconomic developments and trends, musical forms and styles that influence our modern American musical sense. Prerequisites: None.

## MHL194

## Music and Culture

3 credit(s) 3 period(s) lecture
Introduction to the study of multicultural music in its social, cultural, historical and economic contexts. Performance of music using percussion, rhythm, and the human body. Historical and social aspects of global cultures' musical expressions. Prerequisites: A grade of C or better in MTC101 or a higher level MTC course; or Corequisites: MTC105 and MTC106 or permission of Instructor.

MHL204
Hip-Hop Music and Culture

3 credit(s) 3 period(s) lecture
A history of Hip-Hop's musical and artistic elements and how cultural, social, political, and economic conditions have shaped its evolution. Prerequisites: A grade of C or better in ENG101, or ENG107, or permission of Instructor.

## MHL241

Music History and Literature to 1750
3 credit(s) 3 period(s) lecture
In-depth study of music history from the primitive era through the Baroque period. Prerequisites or Corequisites: A grade of C or better in MTC155 and MTC156, or permission of Instructor.

MHL242
Music History and Literature 1750 to Present 3 credit(s) 3 period(s) lecture
In-depth study of music history from the Classical period through the Contemporary period.
Prerequisites: A grade of C or better in MHL241 or permission of Instructor.

## MIS - Military Science

## MIS101

Introduction to the United States Army<br>4 credit(s) 5 period(s) lecture and lab (Fall only)

Introduces the personal challenges and competencies that are critical for effective leadership and communication. Students learn how the personal development of life skills such as cultural understanding, goal setting, time management, stress management and comprehensive fitness relate to leadership, officership and the Army profession. Focuses on developing basic knowledge and comprehension of Army leadership dimensions, attributes and core leader competencies while gaining an understanding of the Army ROTC program, its purpose in the Army, and its advantages for the student. Includes physical training assessments, tactical training, as well as lecture-based instruction. Prerequisites: None.

## MIS102 <br> Foundation of Agile and Adaptive Leadership <br> 4 credit(s) 5 period(s) lecture and lab (Spring only)

Introduces the professional challenges and competencies that are needed for effective execution of the profession of arms and Army communication. Through this course, students learn how ethics and values shape the Army and the specific ways that these ethics are inculcated into Army culture. Explores the seven Army values and the warrior ethos, investigate the profession of arms and Army leadership as well as an overview of the Army, and gains practical experience using critical communication skills. Includes physical training assessments, tactical training, as well as lecture-based instruction.
Prerequisites: A grade of C or better in MIS101.

## MIS201

Army Leadership and Decision Making 4 credit(s) 5 period(s) lecture and lab (Fall only)
Academically challenging course where students study, practice and apply the fundamentals of Army leadership, officership, Army values and ethics, personal development and small-unit tactics at the platoon level. Requires the student to demonstrate writing skills and present information briefings as preparation for development in becoming a successful future officer. Includes reading assignments, homework assignments, small group assignments, briefings, case studies, practical exercises, a mid-term exam and final exam. Also includes physical training assessments, tactical training, as well as lecturebased instruction. Prerequisites: A grade of C or better in MIS102.

## MIS202

## Army Doctrine and Team Development

4 credit(s) 5 period(s) lecture and lab (Spring only)
Academically challenging course where students study, practice and apply the fundamentals of the leadership, officer skills, Army values and ethics, personal development and tactics at the small-unit level. Focuses on cross- cultural competencies as they relate to Army doctrine and how they apply in a combatant commander's engagement strategies. Stresses Army values, teamwork and warrior ethos and their relationship to the law of land warfare and philosophy of military service. Covers the ability to lead and follow through team building exercises in small units up to squad level. Requires the student to demonstrate writing skills and present information briefings as preparation for development in becoming a successful future officer. Also includes physical training assessment, tactical training, as well as lecture-based instruction. Prerequisites: A grade of C or better in MIS201.

## MKT - Marketing

## MKT101

## Introduction to Public Relations

3 credit(s) 3 period(s) lecture
Emphasizes public relations techniques used both within and outside the business organization, including operation of a PR counseling firm. Prerequisites: None.

## MKT/TEC109

Introduction to Fashion Merchandising
3 credit(s) 3 period(s) lecture
Explores the various levels and specialized segment of the fashion industry, the principles of fashion, the fundamentals of merchandising apparel, consumers' influence on demand and marketing activities.
Prerequisites: None.

## MKT110

## Marketing and Social Networking

## 3 credit(s) 3 period(s) lecture

Theory and practice in the use of social media in marketing. Topics may include a history of social media, preparation for social marketing, the power of collective influence, and how to engage with social media. Reviews social mediums, social networks, platforms and other marketing tools used to create social media campaigns. Prerequisites: None.

## MKT111

Applied Marketing and Social Networking
3 credit(s) 4 period(s) lecture + lab
Examination of the strategic use of digital and social media marketing platforms and tools for global communication and networking, including analysis of various digital and social media platforms and tools for developing brands, creating professional networks and creating engaging content. Hands-on use of social media platforms and tools to conduct research, develop strategies for creating, integrating, and evaluating social media marketing campaigns, and development of metrics to measure effectiveness. Prerequisites: A grade of C or better in MKT110.

MKT/TEC151

## Display and Visual Merchandising

3 credit(s) 4 period(s) lecture + lab
An examination of the principles of design including line, color, balance, and texture as they relate to the display of merchandise. Participation in displays, field trips, and individual projects. Prerequisites:
None.

## MKT/TEC200

## Retail Buying

3 credit(s) 3 period(s) lecture
Examines management/buyer role in investment, pricing, planning, controlling sales and inventories.
Prerequisites: None. Any BPC/CIS spreadsheet course recommended.
MKT263
Advertising Principles
3 credit(s) 3 period(s) lecture
Introduces the advertising function within business, including media study, creative strategies, and
advertising campaigns. Prerequisites: None. MKT271 suggested, but not required.
MKT267
Principles of Sales
3 credit(s) 3 period(s) lecture
Analyzes and applies the steps and techniques used in personal selling. Highlights the role of the professional sales representative and his/her functions as they relate to the company's mission and customer expectations. Prerequisites: None.

## MKT268

## Merchandising

3 credit(s) 3 period(s) lecture
Survey's structure and operation of retail organizations. Emphasizes merchandising to include price, location, time promotion and quantity. Prerequisites: None. MKT271 suggested but not required.

## MKT271

Principles of Marketing
3 credit(s) 3 period(s) lecture
An analysis of the marketing process and environment with regard to the product, pricing, distribution, and communication in order to satisfy buyer needs. Prerequisites: None.

MKT/TEC274AC

## Fashion Merchandising Study Tour

## 3 credit(s) 15 period(s) lab

A tour of the retail merchandising industry outside the metropolitan Phoenix area. Includes a variety of experiences and activities to enhance awareness of this multifaceted career. Prerequisites: Department approval.

## MKT280AA

Marketing Internship
1 credit(s) 1 period(s) lecture + lab
Marketing work experience in a business or industry. 80 hours of designated work per credit.
Prerequisites: Permission of Department or Division. Course Notes: MKT280AA may be repeated for a total of four (4) credits.

MKT280AB

## Marketing Internship

2 credit(s) 2 period(s) lecture + lab
Marketing work experience in a business or industry. 80 hours of designated work per credit.
Prerequisites: Permission of Department or Division. Course Notes: MKT280AB may be repeated for a total of four (4) credits.

## MKT280AC

## Marketing Internship

3 credit(s) 3 period(s) lecture + lab
Marketing work experience in a business or industry. 80 hours of designated work per credit.
Prerequisites: Permission of Department or Division. Course Notes: MKT280AC may be repeated for a total of six (6) credits.

## MMT - Multimedia Technology

## MMT/AVC184

## Computer Animation

3 credit(s) 6 period(s) lecture + lab
The art of animation (animated sequences, special effects, titles, etc.) using the computer. Construction characters, background graphics, color, scaling, storyboard, cells, timing, editing, and surface rendering. Screening and discussion of selected animated short films and videos. Prerequisites: A grade of C or better in AVC100, or ART111, or ART116, or permission of Instructor.

## MMT/AVC185

3D Modeling and Animation I
3 credit(s) 6 period(s) lecture + lab
Basic concepts of 3D modeling. Anatomy of computer geometry; basic elements that make computer models-curves, surfaces, non-uniform rational basis spline (NURBS), and polygons. 3D translation, shading, materials, and rendering. Requisites: A grade of C or better required in all Prerequisites. Prerequisites or Corequisites: AVC100 or permission of Instructor.

## MMT216

Multimedia Project Management
3 credit(s) 6 period(s) lecture + lab
Interactive video and multimedia project management including defining, analyzing, designing, and validating interactive/ multimedia applications; building and managing development and production teams; planning, budgeting, and scheduling; interactive/multimedia authoring; project implementation; and writing RFP's (Request For Proposal). Prerequisites: None.

## MNT - Micro and Nano Technology

MNT110<br>Nanotechnology: What It Is and Why It Matters<br>3 credit(s) 3 period(s) lecture

Designed to provide students with a strong fundamental understanding of the scientific principles, processing, and applications of nanotechnology. Includes the concepts of chemical bonding, quantum mechanics, and microstructure applied to various nanomaterials and their use in electronic devices, composites, computing, and various other biological, medical, energy- related, and current consumer applications. Introduces analytical techniques used in nanotechnology, as well as possible societal applications. Prerequisites: None.

## MNT201

Materials, Safety, and Equipment for Nanotechnology
3 credit(s) 4 period(s) lecture + lab Safety procedures and equipment used in the micro and nanotechnology industries. Covers chemical, biological, and energy safety protocol as well as infrastructure facilities and systems. Also includes an overview of the structural, chemical, and physical classification of materials. Prerequisites: None.

## MNT210

## Basic Nanotechnology Processes

3 credit(s) 4 period(s) lecture + lab
Introduction to basic nanotechnology processes and a comparison of top-down and bottom-up manufacturing processes. Covers characteristics of plasma and its application to additive and subtractive processes. Also includes basic pattern transfer processes, laser ablation, and chemical and physical vapor deposition. Prerequisites: None.

MNT220

## Materials in Nanotechnology

## 3 credit(s) 4 period(s) lecture + lab

Examination of material used in the field of nanotechnology. Covers colloids, nanoparticles, oxides, and quantum dots in addition to self-assembly applications. Also includes biocompatibility and the dry etch material fabrication process. Prerequisites: None.

## MST - Microsoft Technology


#### Abstract

MST150EI Configuring Windows 8 3 credit(s) 4 period(s) lecture + lab In-depth exploration of how to effectively install and configure Windows 8. Includes features of Windows 8, virtualization with Hyper-V, network connectivity, access to resources, monitor and maintain Windows clients and backup and recovery. Designed to prepare students for the Microsoft Windows 8 certification examination (70-687). Prerequisites: None. MST140, or CNT140++ recommended.


## MST150SV

Microsoft Windows 7 Configuration
3 credit(s) 4 period(s) lecture + lab
Knowledge and skills necessary to perform installation and day-to-day administration and support of the Microsoft Windows 7 operating system. Preparation for the Microsoft certification examination. Prerequisites: None. CIS190, or CNT140AA, or MST140 suggested but not required.

## MST150WT

Installing and Configuring Microsoft Windows 10
3 credit(s) 4 period(s) lecture + lab
In-depth exploration of how to effectively install and configure Windows 10. Includes features of Windows 10, virtualization improvements, network connectivity, access to resources, monitor and maintain Windows clients and backup and recovery. Designed to prepare students for the Microsoft Windows 10 certification examination. Prerequisites: None. CIS190 or CNT140AB suggested but not required.

## MST155DC

Installation, Storage, and Compute with Windows Server 4 credit(s) 5 period(s) lecture + lab
This course focuses primarily on the installation, storage, and compute features and their functionality that is available within Windows Server. As Information Technology pushes towards more cloud-based solutions and makes our classic approach obsolete, this course will help students prepare for a career within an Information Technology enterprise and help distinguish themselves in today's competitive job market. This course covers various topics like Windows Server installation, Hyper-V deployments and storage options in relation to this new cloud-based reality. Prerequisites: A grade of C or better in MST150++ or permission of Instructor.

## MST157DC

Networking with Windows Server
4 credit(s) 5 period(s) lecture + lab
This course focuses on the networking features and their functionality available within Windows Server. It builds upon the skills from the Installation, Storage, and Compute with Windows Server course (MST155DC) and will develop skills related to Software-Defined Networking (SDN) solutions within Hyper-V, remote connectivity with VPN and Direct Access, and providing Internet connectivity with Domain Name System (DNS), Dynamic Host Configuration Protocol (DHCP), and Internet Protocol Address Management (IPAM). This course helps prepare for the 70-741 industry certification test. Prerequisites: A grade of C or better in MST155DC or permission of Instructor.

## MST158DC

## Identity Management with Windows Server 2016

4 credit(s) 5 period(s) lecture + lab
Prepares students to manage Windows Server 2016 tasks. Configure and manage multiple services, such as Identity Management and Active Directory. Learn how to install and configure domain controllers and create and manage users, groups, and computers within Organizational Units. Prepares students for the Microsoft exam, Identity with Windows Server 2016-70-742. Prerequisites: A grade of C or better in MST157DC.

## MTC - Music: Theory/ Composition

## MTC101

Introduction to Music Theory
3 credit(s) 3 period(s) lecture
Designed to develop written and aural skills necessary for advanced study of music theory and skills. Recommended for music majors. Prerequisites: None.

MTC103
Introduction to Aural Perception
1 credit(s) 2 period(s) lecture + lab
An introduction to the aural skills necessary to hear relationships of intervals, rhythms, melody, and harmony in music. May be repeated for a total of four (4) credit hours. Prerequisites: None. Course Notes: MTC103 may be repeated for a total of two (2) credit hours.

## MTC105

## Music Theory I

3 credit(s) 3 period(s) lecture
The chronological study of music theory including: harmony, melody, texture, structure and timbre through analysis, original compositions and basic exercises to demonstrate musical concepts.
Prerequisites: A grade of C or better in MTC101 or permission of Instructor. Corequisites: MTC106.

## MTC106

Aural Perception I
1 credit(s) 2 period(s) lecture + lab
The development of listening and performing skills through dictation, sight singing and keyboard harmony. Prerequisites: None. Corequisite: MTC105.

## MTC155

Music Theory II
3 credit(s) 3 period(s) lecture
A continuation of Music Theory I with emphasis on harmony and part-writing procedures.
Prerequisites: A grade of C or better in MTC105. Corequisites: MTC156.

## MTC156

## Aural Perception II

1 credit(s) 2 period(s) lecture + lab
A continuation of Aural Perception I, including harmonic practices. Prerequisites: A grade of C or better in MTC106. Corequisites: MTC155.

## MTC180

Computer Literacy for Musicians
3 credit(s) 4 period(s) lecture + lab
Instruction in basic computer literacy, including generic applications and music- specific programs with hands-on experience. Ability to read music notation required. Prerequisites: A grade of C or better in MTC101, or MTC105, or Corequisites: MTC105, or permission of Instructor.

MTC205 MUS 2222 ब बunim
Music Theory III

## 3 credit(s) 3 period(s) lecture

The study of chromatic harmony and melody, modulation techniques and expanded chords. The analysis of formal structure. Prerequisites: A grade of C or better in MTC155. Corequisites: MTC206.

MTC206 MUS 2222 ธงUN:
Aural Perception III
1 credit(s) 2 period(s) lecture + lab
A development of listening and performing skills, including an introduction of chromatic harmonic techniques and concepts of style. Prerequisites: A grade of C or better in MTC156. Corequisites: MTC205.

## MTC240

Composition
3 credit(s) 0.6 period(s) lecture + lab
Introduction to the basics of music composition, stressing techniques and procedures for developing original ideas. May be repeated for total of twelve (12) credit hours. Prerequisites: A grade of C or better in (MTC105 and MTC106, or equivalent), and permission of Instructor.

MTC255 MUS 2223 बUN:
Music Theory IV
3 credit(s) 3 period(s) lecture
A continuation of Music Theory III, including 20th century theories and techniques. Prerequisites: A grade of C or better in MTC205. Corequisites: MTC256.

MTC256 MUS 2223 sunim
Aural Perception IV
1 credit(s) 2 period(s) lecture + lab
A continuation of Aural Perception III, including extended chords. Prerequisites: A grade of C or better in MTC206. Corequisites: MTC255.

## MUC-Music: Commercial/ Business

MUC109
Music Business: Content Creation and Copyright
3 credit(s) 3 period(s) lecture
Designed to provide an overview of content creation and copyright considerations within the Music Industry. Topics include songwriting and music creation, copyright, publishing and licensing, studio production, media applications of music, business ownership and operations, and emerging technologies. Prerequisites: None.

## MUC110

Music Business: Marketing and Monetization
3 credit(s) 3 period(s) lecture
Designed to provide an overview of the marketing and monetization of music. Topics include music label operations; contracts; marketing, promotion, and merchandising; agents, managers, and attorneys; concert promotion and touring; and unions and guilds. Prerequisites: None.

## MUC111

## Digital Audio Workstation I (DAW I)

3 credit(s) 5 period(s) lecture + lab
Use of digital mixing and automation software in conjunction with editing and recording. Includes computer operation, troubleshooting, and file management. Prerequisites: A grade of C or better in MUC195, or MUC195AA, or FMP105, or permission of Instructor.

## MUC112

Digital Audio Workstation II (DAW II)
3 credit(s) 5 period(s) lecture + lab
Use of digital mixing and automation software in conjunction with editing and recording. Includes computer operation, troubleshooting, and file management. Prerequisites: A grade of C or better in MUC111, and (MUC195 or MUC195AA).

## MUC/FMT120

## Introduction to Sound Design for Film and Video

3 credit(s) 3 period(s) lecture
Basic principles of recording and mixing sound for film and video. Includes voice over, automatic dialog replacement (ADR), foley, ambience, special effects and music. Emphasis on analog and digital recording techniques in the field as well as in a controlled environment. Prerequisites: A grade of C or better in (FMT100 and FMT136) or permission of Instructor.

## MUC122

## Sound Design I

3 credit(s) 5 period(s) lecture + lab
Introduction to Sound Design and Audio Post-Production for Multimedia. Includes creating and editing Sound Effects, ADR, Foley, Music, and Ambience, such as Film, TV, Video Gaming, Theatre, and Dance. Emphasis on computer assisted production using Digital Audio Workstations and sound design techniques using industry-standard equipment. Prerequisites: None.

3 credit(s) 4 period(s) lecture + lab
An introduction to creating music with computers, utilizing the Musical Instrument Digital Interface (MIDI) protocol, synthesizers, digital audio software/ hardware, and MIDI controllers. Prerequisites: None.

## MUC192

## Electronic Music II

## 3 credit(s) 4 period(s) lecture + lab

Continued study of creating music with computers, utilizing the Musical Instrument Digital Interface (MIDI) configurations, audio editing, and music software/hardware at the intermediate level. Emphasis on more complex configurations and their applications in compositions. Prerequisites: A grade of C or better in MUC191.

## MUC193

Computer-Based Sound Synthesis
3 credit(s) 4 period(s) lecture + lab
Principles of sound synthesis using computer-based methods. Synthesis methods include subtractive, additive, frequency modulation, sample and synthesis, and hybrid. Emphasis on synthesis techniques for use in electronic music. Prerequisites: A grade of C or better in MUC191 or permission of Instructor.

## MUC194

## Audio Mixing Techniques

3 credit(s) 4 period(s) lecture + lab
Approaches in final mixing for different musical genres. Develop critical listening skills, and applying these techniques to students' projects. Professional-type facilities and equipment available for student use. Prerequisites: A grade of C or better in MUC111 and MUC196, or permission of Instructor.

## MUC195

## Studio Music Recording I

3 credit(s) 5 period(s) lecture + lab
Basic principles of studio sound recording. Emphasis on musical acoustics, operation of recording equipment, studio setups, and multitrack recording. Includes studio session process and musical production decisions. Prerequisites: None.

## MUC196

## Studio Music Recording II

3 credit(s) 5 period(s) lecture + lab Emphasis on signal-processing equipment, mixing consoles, and advanced musical recording session procedures, production, and engineering. Includes mix-down and resultant master tape of a musical recording session. Prerequisites: A grade of C or better in MUC195 or MUC195AA.

## MUC197

## Live Sound Reinforcement I

3 credit(s) 4 period(s) lecture + lab
Basic principles of live sound engineering. Emphasis on signal flow, acoustic, sound reinforcement setups and installation, signal processing, microphone selections and placement. Includes setting up sound systems and mixing live music. Prerequisites: None.

## MUC198

## Live Sound Reinforcement II <br> 3 credit(s) 4 period(s) lecture + lab

Emphasis on musical production decisions. Front-of-house and monitor console placement, loudspeaker arrangements, power considerations, program material and sound pressure levels. Includes setting up of sound system and mixing live performances with various styles of music. In addition to mixing at alternate locations. Prerequisites: A grade of C or better in MUC197.

MUC209
Music Industry Entrepreneurship 3 credit(s) 3 period(s) lecture
Operation, scope, and career opportunities in the music business. Focuses on music in the areas of entrepreneurship, visionary development and the collaboration process. Prerequisites: A grade of C or better in MUC109 and MUC110 or permission of Instructor.

## MUC/FMT220

## Advanced Sound Design for Film and Video

3 credit(s) 5 period(s) lecture and lab
Explores techniques and advanced applications used in designing sound using original student footage on a non- linear editing system. Prerequisites: A grade of C or better in FMT/MUC120 or permission of Instructor.

## MUC222

Sound Design II
3 credit(s) 5 period(s) lecture + lab
Intermediate level Sound Design and Audio Post-Production for Multimedia. Requisites: A grade of C or better required in all Prerequisites. Prerequisites: MUC122. Prerequisites or Corequisites: MUC111, or MUC191, or permission of Instructor.

## MUC281

## Electronic Music III

3 credit(s) 4 period(s) lecture + lab
Continued study of the production of music using electronic processes. Emphasis on more complex configurations and their applications in live performance or studio use. Prerequisites: A grade of C or better in MUC192.

MUC290AA

## Music Business Internship

1 credit(s) 1 period(s) lecture + lab
Music Business Internship work experience. Perform a variety of activities, to fulfill the routines and responsibilities of the department or business where the internship is served. Eighty (80) hours of designated work per credit. Prerequisites: Permission of Department or Division. Course Notes: MUC290AA may be repeated for a total of twelve (12) credit hours.

MUC292

## Sound Design III

3 credit(s) 6 period(s) lecture + lab
Advanced Sound Design Production for Multimedia: Designed to provide an atmosphere of team research and study paralleled by professional expertise and guidance. Professional-type
facilities and equipment available for student use. Prerequisites: A grade of C or better in MUC222, or permission of Instructor.

MUC293
Self-Promotion for Music
1 credit(s) 1 period(s) lecture
Designed to provide the skills and knowledge required for effective self-promotion. Focus on career goal development, market analysis, communication and networking skills, and the development of a selfpromotional campaign. Prerequisites: None.

## MUC295

## Studio Music Recording III

3 credit(s) 6 period(s) lecture + lab
Producing and engineering a recording project. Covers how recording studios work and how recording projects are organized from pre-production through delivery of the final mix. Prerequisites: A grade of C or better in MUC196 and (MUC111 or permission of Instructor).

MUC297AA
Audio Production Internship
1 credit(s) 1 period(s) lecture + lab
Music Internship work experience in a business or industry. Eighty (80) hours of designated work per credit. Prerequisites: Permission of Department or Division. Course Notes: MUC297AA may be repeated for a total of twelve (12) credit hours.

## MUE - Music: Education

## MUE240

## Introduction to Choral Methods

1 credit(s) 3 period(s) lecture + lab
Overview of techniques, methods, materials, style characteristics, and repertoire used in directing choral music at the secondary level including simulated teaching, conducting, and the demonstration of vocal and choral performance practices. Prerequisites: None.

## MUP - Music: Performance

MUP101, MUP151, MUP201, MUP251
Private Instruction
1 credit(s) 0.6 period(s) lecture + lab
Private Instruction emphasizing developmental improvement of musicianship and technique from an entering skill level. Four course sequence required of all music majors meeting departmental requirements. Instruction provided on voice, piano, harpsichord, organ, guitar, trumpet, French horn, trombone, euphonium, tuba, flute, oboe, clarinet, bassoon, saxophone, violin, viola, violoncello, contrabass, bass guitar, percussion, and harp. May be repeated for credit. Prerequisites: None.

## MUP102, MUP152, MUP202, MUP252

## Private Instruction

2 credit(s) $\mathbf{1 . 2}$ period(s) lecture + lab
Private instruction emphasizing musicianship, literature, technique and performance. Four course sequence designed for university transfer equivalency. Instruction provided on voice, piano, harpsichord, organ, guitar, trumpet, French horn, trombone, euphonium, tuba, flute, oboe, , clarinet, bassoon, saxophone, violin, viola, violoncello, contrabass, bass guitar, percussion, and harp. May be repeated for credit. Prerequisites: None.

## MUP123AB

## Studio Class/Voice

0.5 credit(s) 0.5 period(s) lecture + lab

Performance and laboratory class for students enrolled in private voice instruction. Emphasis on demonstration and discussion of specific vocal problems. Prerequisites: None. Corequisites: Private Voice Instruction. Course Notes: MUP123AB may be repeated for credit.

## MUP123AD

## Studio Class: Instrumental

## 0.5 credit(s) 0.5 period(s) lecture + lab

Performance and laboratory class for students enrolled in private instrumental instruction. Emphasis on demonstration and discussion of specific instrumental problems.Prerequisites: None. Corequisites: Private Instrumental Instruction. Course Notes: MUP123AD may be repeated for credit.

## MUP127

Class Guitar I
1 credit(s) 3 period(s) lecture + lab
Emphasis on note-reading and folk-style harmonic accompaniment. Includes finger- style playing. Stresses development of efficient practicing techniques and proper sitting and hand positions.
Prerequisites: None.

## MUP128

## Class Guitar II

1 credit(s) 3 period(s) lecture + lab
Note-reading range including second position and parts of higher positions. Classical, popular, Latin, and other styles of music. Theory including scales, keys, and chord construction. Technical exercises of both hands. Prerequisites: A grade of C or better in MUP127 or permission of Instructor.

## MUP130

## Introduction to Class Piano <br> 1 credit(s) 3 period(s) lecture + lab

Basic introduction to piano techniques and fundamentals of music including hand position, sight-reading of both melodic and harmonic materials, and the introduction of scale patterns. Designed for those with little or no piano experience. Prerequisites: None.

## MUP131

## Class Piano I

1 credit(s) 3 period(s) lecture + lab
Development of beginning piano techniques and the fundamentals of music including basic hand position, music reading skills of melodic and harmonic material, major scales, transposition, and harmonization including the I, IV, V7 chords. Prerequisites: None.

## MUP132

## Class Piano II

1 credit(s) 3 period(s) lecture + lab
Continuation of Piano I with emphasis on elementary piano techniques including major and minor scales, transposition, improvisation, and sight reading. Prerequisites: A grade of C or better in MUP131 or permission of Instructor.

## MUP133

## Class Voice I

1 credit(s) 3 period(s) lecture + lab
Introduction to the fundamentals of vocal production. Emphasis on breathing techniques, tone production and performances in class of solo vocal literature. Prerequisites: None.

## MUP134

## Class Voice II

1 credit(s) 3 period(s) lecture + lab
Continuation of Class Voice I including the elements of stage presence and diction. Prerequisites: A grade of C or better in MUP133 or permission of Instructor.

## MUP150

## Community Chorus

1 credit(s) 3 period(s) lecture + lab
A mixed chorus with emphasis on college/ community participation and preparation of a variety of choral literature for public performance. Auditions may be required. May be repeated for credit.
Prerequisites: None.
MUP153

## Concert Choir

1 credit(s) 5 period(s) lecture + lab
A mixed choir designed to emphasize choral techniques and performance of all styles of choral literature. Public performances are scheduled each semester. Prerequisites: None. Course Notes: Auditions may be required. MUP153 may be repeated for credit.

## MUP155

Handbell Choir (Bell Canto)

1 credit(s) 3 period(s) lecture + lab
Emphasis on practical and performing skills in bell ringing. Preparation of all styles of bell literature. Scheduled public performances during the year. Prerequisites: None. Course Notes: MUP155 may be repeated for credit.

## MUP157

## Treble Choir

1 credit(s) 3 period(s) lecture + lab
A high voice chorus designed to emphasize choral technique and performance of all styles of appropriate choral literature. Public performances are scheduled during the year. Auditions may be required.
Prerequisites: None. Course Notes: MUP157 may be repeated for credit.
MUP159

## Community Orchestra

1 credit(s) 3 period(s) lecture + lab
Emphasis on college/community participation and the preparation of orchestral literature for public performance. Prerequisites: None. Course Notes: MUP159 may be repeated for credit. Auditions may be required.

## MUP161

## Community Band

1 credit(s) 3 period(s) lecture + lab
Emphasis on college/community participation and the preparation of wind literature for public performance. Prerequisites: None. Course Notes: MUP161 may be repeated for credit. Auditions may be required.

## MUP163

Jazz Ensemble
1 credit(s) 3 period(s) lecture + lab
Practical and performance experience in various jazz styles. Prerequisites: None. Course Notes: MUP163 may be repeated for credit. Open to all students on the basis of auditions. Auditions may be required.

## MUP164

## Jazz Improvisation I

2 credit(s) 3 period(s) lecture + lab
Theoretical and performance skills in many styles of jazz improvisation. Prerequisites: None. Course
Notes: MUP164 may be repeated for a total of six (6) credit hours.

## MUP165

Jazz Improvisation II
2 credit(s) $\mathbf{3}$ period(s) lecture + lab
Intermediate theoretical and performance skills in many styles of jazz improvisation. May be repeated for a total of six (6) credit hours. Prerequisites: A grade of C or better in MUP164 or permission of Instructor.

## MUP181

Chamber Music Ensembles
1 credit(s) 2 period(s) lecture + lab

Practical and performance experience in instrumental, vocal, and mixed ensembles. Prerequisites: None. Course Notes: MUP181 may be repeated for credit.

## MUP182

## Chamber Singers <br> 1 credit(s) 3 period(s) lecture + lab

Practical and performance experience in various styles of vocal music. Prerequisites: None. Course Notes: MUP182 may be repeated for credit. Open to all students on the basis of auditions. Auditions may be required.

## MUP190

## Percussion Ensemble

1 credit(s) 3 period(s) lecture + lab
Practical and performance experience in various percussion styles. Percussion literature from a diverse number of world musical traditions. Western European art music, various African traditions, Indian music, Japanese music, Indonesian music, Mexican, Central, and South American music, and percussion compositions from the American Experimental Tradition rehearsed and performed. Concerts presented throughout the semester. Percussion techniques are studied and refined as they relate to the literature performed. Emphasis placed on reading and listening skills, increased aesthetic discrimination. Informed performance practice and skills on all percussion instruments and traditions. Prerequisites: None. Course Notes: MUP190 may be repeated for credit.

## MUP209

## Elements of Conducting

2 credit(s) 2 period(s) lecture
Essentials of conducting techniques used in choral and instrumental ensembles including terminology, interpretation, and styles. Prerequisites: None.

## MUP227

## Class Guitar III

1 credit(s) 3 period(s) lecture + lab
Additional fingerboard positions. Ensemble techniques and performance. Prerequisites: A grade of C or better in MUP128 or permission of Instructor.

## MUP228

## Class Guitar IV

1 credit(s) 3 period(s) lecture + lab
Advanced fingerboard positions. Duet and trio performances. Advanced ensemble techniques.
Prerequisites: A grade of C or better in MUP227 or permission of Instructor. Course Notes: MUP228 may be repeated for credit.

## MUP231

## Class Piano III

1 credit(s) 3 period(s) lecture + lab
Development of intermediate piano techniques including selected solo literature, transposition of harmonic patterns, and secondary dominants. Prerequisites: A grade of C or better in MUP132 or permission of Instructor.

## Class Piano IV

1 credit(s) 3 period(s) lecture + lab
Continuation of Piano III including modulation techniques, improvisation of piano accompaniments, advanced chromatic harmony, and sight reading of advanced literature. Prerequisites: A grade of C or better in MUP231 or permission of Instructor. Course Notes: MUP232 may be repeated for credit.

## MUP233

Class Voice III
1 credit(s) 3 period(s) lecture + lab
Interpretive singing through a closer examination of coloring, tone production, dynamics, and tempo indications. Prerequisites: A grade of C or better in MUP134.

MUP234
Class Voice IV
1 credit(s) 3 period(s) lecture + lab
Emphasis on the preparation of solo vocal literature for the purpose of evaluation and the integration of the music with the drama of the music. Prerequisites: A grade of C or better in MUP233 or permission of Instructor. Course Notes: MUP234 may be repeated for credit.

## MUP250AB

Survey of Diction for Singers (Italian/ Latin)
1 credit(s) 2 period(s) lecture + lab
Introduction to the use of phonetics in the study of Italian/Latin song literature. Prerequisites: None.

MUP250AC
Survey of Diction for Singers (German)
1 credit(s) 2 period(s) lecture + lab Introduction to the use of phonetics in the study of German song literature. Prerequisites: None.

## NAV - Navajo

NAV101
Elementary Navajo I
4 credit(s) 4 period(s) lecture
Basic grammar, pronunciation, and vocabulary of the Navajo language. Practice of listening, speaking, reading, and writing skills. Includes the study of the Navajo culture with participation in an off-campus Navajo cultural event. Prerequisites: None.

## NAV102

## Elementary Navajo II

4 credit(s) 4 period(s) lecture
Continued study of grammar, pronunciation, and vocabulary of the Navajo language. Emphasis on listening, speaking, reading, and writing skills. Prerequisites: A grade of C or better in NAV101 or permission of department. Completion of prerequisites within the last three years is required. Course Note: Includes the study of the Navajo culture with participation in an off- campus Navajo cultural event.

## NUR - Nursing Science: Basic

NUR152

## Nursing Theory and Science I <br> 9 credit(s) 20.88 period(s) lecture and lab

Introduction of Nurse of the Future competencies as a foundational framework for development of the professional nurse. Basic care concepts, the nursing process, and clinical reasoning are utilized to meet the needs of adult and older adult patients. Prerequisites: Admission into the Nursing Program.

## NUR172

## Nursing Theory and Science II

9 credit(s) $\mathbf{1 7 . 3 1}$ period(s) lecture and lab
Utilization of Nurse of the Future competencies and clinical judgment measures to develop knowledge, skills, and attitudes to provide safe, quality patient care across the wellness-illness continuum in selected medical-surgical and mental health patients. Prerequisites: A grade of C or better in (BIO202 and NUR152) or permission of Nursing Department Chair.

NUR252
Nursing Theory and Science III
9 credit(s) 17.31 period(s) lecture and lab
Application of critical thinking strategies and clinical judgment measures related to holistic care of the newborn and childbearing patients. Integration of concepts related to holistic care of adults and older adult patients with selected acute and chronic alterations in health. Integration of professional nursing standards in role development. Utilization of previous knowledge of physical, biologic, psycho-social sciences, and the cultural, spiritual aspects of nursing care. Integration of concepts of nutrition, pharmacology, communication, health promotion, and pathophysiology into nursing care.
Prerequisites: A grade of C or better in (CRE101 and NUR172 and PSY101) or permission of Nursing Department Chair.

## NUR283

Nursing Theory and Science IV
9 credit(s) 17.31 period(s) lecture and lab
Applies Nurse of the Future competencies and clinical judgment measures to practice and manage care for the child/family unit and adults requiring complex care throughout the wellness/illness continuum, and prepare for transition from student to professional nurse. Prerequisites: A grade of C or better in (BIO205 and NUR252) or permission of Nursing Department Chair.

## NVH - Navajo Humanities

## NVH245

Navajo Culture and Heritage 3 credit(s) 3 period(s) lecture
Survey of the Navajo people, including their history, culture/aesthetics, education, spirituality, and language. Prerequisites: None.

## PAD - Public Administration

## PAD100

## 21st Century Public Policy and Service

3 credit(s) 3 period(s) lecture
Introduction to topics pertaining to public policy and public service in the 21st century. Includes formation, implementation, and evaluation procedures for public policy, as well as roles and agendas of policy makers and public administrators. Also covers careers in public service/administration and an evaluation of essential skills necessary for a career in public service. Prerequisites: None.

PAD200
Public Affairs Economics
3 credit(s) 3 period(s) lecture
Introduction to the use of macroeconomic and microeconomic principles concerning public affairs and social issues. Includes the role of economics in societal development and public policies in addition to the effects of unemployment and inflation. Also covers measurement of, causes for and societal responses to poverty. Prerequisites: A grade of C or better in PAD100 or permission of Instructor.

## PED - Physical Education

## PED101s

## Physical Activities: Basic

1 credit(s) 2 period(s) lecture + lab
Individual, dual, or team sports activities at the basic level. Prerequisites: None. Course Note: PED101 may be repeated for credit.

## PED115

## Lifetime Fitness

2 credit(s) 4 period(s) lecture + lab
Increase personal fitness, strength, and vitality. Current principles of cardiovascular exercise, weight training, flexibility, and balance exercises applicable to lifetime fitness goals. Personalized fitness plans developed and implemented with support of highly trained fitness professionals. Techniques to make sessions more effective and enjoyable. Prerequisites: None. Course Note: PED115 may be repeated for a total of eight (8) credit hours.

## PED116

## Cardiovascular Fitness

2 credit(s) 4 period(s) lecture + lab
Blends an effective warm-up, challenging cardiovascular and strength/endurance training strategies and a relaxing cool-down. Tailored by certified fitness professionals to personal goals. Prerequisites: None. Course Note: PED116 may be repeated for a total of eight (8) credits.

PED117
Weight Training for Wellness
2 credit(s) 4 period(s) lecture + lab
Strength training and muscular fitness activity to help develop a lifetime of regular exercise and muscular strength maintenance. Development of full body strength and stability of the body's core musculature, translating to increased power, balance, and functional movement ability including assessment of current strength and goal- specific program design to increase strength and muscular fitness. Prerequisites: None. Course Note: PED117 may be repeated for a maximum of eight (8) credits.

## PHI - Philosophy

## PHI101 PHI 1101 suns

## Introduction to Philosophy

3 credit(s) 3 period(s) lecture
General consideration of human nature and the nature of the universe. Knowledge, perception, freedom and determinism, and the existence of God. Prerequisites: None.

## PHI103 PHI 1103 suñ

Introduction to Logic
3 credit(s) 3 period(s) lecture
Informal logic, logical fallacies, elementary symbolic logic, analysis of argument forms, and construction of proofs for validity. Prerequisites: A grade of C or better in ENG101 or ENG107 or equivalent.

## PHI105 PHI 1105 sunim <br> Introduction to Ethics <br> 3 credit(s) 3 period(s) lecture

A survey of ethical theory in Western Philosophy, including the major normative theories and selected metaethical theories. Prerequisites: None.

## PHI212

Contemporary Moral Issues
3 credit(s) 3 period(s) lecture
Philosophical consideration of such moral issues as civil disobedience, preferential treatment, abortion, privacy, sexual morality, and poverty and hunger. Prerequisites: None.

## PHI213

Medical and Bio-Ethics

## 3 credit(s) 3 period(s) lecture

A philosophical consideration of moral problems that arise in relation to medicine and biology, e.g., death, patient rights and biological experimentation. Prerequisites: None.

## PHI216

## Environmental Ethics

3 credit(s) 3 period(s) lecture
Philosophical consideration of diverse theories and perspectives on the environment, and application of these theories to global moral issues such as animal rights, preservation of wilderness and species, population, world hunger and poverty, and air and water pollution. Prerequisites: None.

## PHI218

## Philosophy of Sexuality

3 credit(s) 3 period(s) lecture
Philosophical examination of sexuality in human life. Historical and critical survey of philosophical and theological views. Comparison and evaluation of contemporary theories about the nature of sexual desire and sexual acts. Implications of theories for contemporary moral problems. Prerequisites: A grade of C or better in ENG101 or ENG107 or permission of Instructor. Course Notes: Course may contain adult content. All students under 18 years old are required to have a signed parental consent form on file, which is on the back of the "Students Under The Age of 18" Enrollment Form.

## PHS - Physical Science

PHS110
Fundamentals of Physical Science
4 credit(s) 6 period(s) lecture and lab Survey of the principles of physics and chemistry.
Prerequisites: A grade of C or better in MAT090 or higher-level mathematics course or eligibility for MAT120 or higher as indicated by appropriate placement.

## PHY - Physics

## PHY101

## Introduction to Physics

4 credit(s) 6 period(s) lecture and lab
A survey of physics emphasizing applications of physics to modern life. Prerequisites: A grade of C or better in MAT090 or higher-level mathematics course or eligibility for MAT120 or higher as indicated by appropriate placement. Course Note: Students may receive credit for only one of the following: PHY 101 or PHY101AA.

## PHY111 PHY 1111 Sunim

General Physics I
4 credit(s) 6 period(s) lecture and lab
Includes motion, energy, and properties of matter. Prerequisites: A grade of C or better in MAT182 or MAT187 or MAT220 or MAT221 or eligibility for MAT220 as indicated by appropriate placement or one-year high school Trigonometry with a grade of C or better or permission of Department or Division. Course Note: PHY111 is recommended for preprofessional and suggested for certain other majors. Students may receive credit for only one of the following: PHY111 or PHY111AA.

## PHY112 PHY 1112 sund

General Physics II
4 credit(s) 6 period(s) lecture and lab
Includes electricity, electromagnetism, and modern physics. Prerequisites: A grade of C or better in PHY111.

## PHY121 PHY 1121 sund

University Physics I: Mechanics
4 credit(s) 6 period(s) lecture and lab
Kinematics, Newton's laws, work, energy, momentum, conservation laws, dynamics of particles, solids, fluids, mechanical waves, and sound. Prerequisites: A grade of C or better in MAT220, or MAT221, or permission of Department or Division. One year of High School physics or PHY111 and PHY112 suggested but not required.

## PHY131 PHY 1131 sung

## University Physics II: Electricity and Magnetism

4 credit(s) 6 period(s) lecture and lab
Electric charge and current, electric and magnetic fields in vacuum and in materials, and induction.
AC circuits, displacement current, and electromagnetic waves. Prerequisites: A grade of C or better in MAT230, or MAT231, or permission of Department or Division, and a grade of C or better in PHY121. Corequisites: MAT241 or permission of Department or Division.

## PLB - Phlebotomy

## PLB109

Phlebotomy: Basic Skills
2 credit(s) 4 period(s) lecture + lab
Theory and practice of basic phlebotomy including laboratory test codes, equipment, and procedures.
Prerequisites: (Acceptance into the Laboratory Assisting or Phlebotomy program or permission of Instructor) and permission of Program Director.

## PLB110

Practicum: Fundamental Phlebotomy Skills
0.5 credit(s) 3 period(s) lab

Application of fundamental phlebotomy techniques in a clinical laboratory setting or health care environment. Prerequisites: A grade of C or better in PLB109, submit to a drug screening and demonstrate negative results, and acceptance into the Medical Assisting or Phlebotomy program, or permission of Program Director. Course Notes: PLB110 may be repeated for credit.

## PLB110AA

## Practicum: Basic Phlebotomy: Training for Law Enforcement Officers

 2.0 credit(s) 6.0 period(s) labApplication of basic phlebotomy techniques in a clinical laboratory setting or health care environment for law enforcement purposes. Prerequisites: Certified Law Enforcement Officer or permission of Program Director. Corequisites: PLB109.

## PLB111

Specimen Processing and Advanced Techniques in Phlebotomy Procedures
2 credit(s) 4 period(s) lecture + lab
Theory and practice of advanced techniques in phlebotomy and specimen processing including laboratory test codes, equipment, and procedures. Prerequisites: A grade of C or better in PLB109 and permission of Program Director.

## PLB112

## Practicum: Specialized Phlebotomy Techniques

0.5 credit(s) 3 period(s) lab

Application of specialized phlebotomy techniques in a clinical laboratory setting or health-care environment. Prerequisites: A grade of C or better in PLB109 and PLB110. Corequisites: PLB111 and PLB121, or permission of Instructor.

## PLB114

## Refresher Course for Phlebotomists

1 credit(s) 1 period(s) lecture + lab
Review of phlebotomy theory and practices including equipment, procedures, and special considerations. Reinforces and updates basic skills and competencies of phlebotomy techniques for individuals who have not worked in the field for between 6 months and 24 months and for those who have completed a formal structured phlebotomy training program but have not worked in the field. Prerequisites: (Must provide proof of 2 years employment as a phlebotomist within the last 4 years or completion of a formal structured phlebotomy training program within the last 2 years with proof of a minimum of 100 successful venipunctures) and permission of Program Director. Course Note: PLB114 may be repeated for credit.

## PLB115

## Developmental Skills for Law Enforcement Phlebotomy

1 credit(s) 1 period(s) lecture + lab Provides an update for specific law enforcement phlebotomy. Includes phlebotomy theory and practices including equipment, procedures, and special considerations of phlebotomy techniques. Prerequisites: Permission of Program Director. Course Note: PLB115 may be repeated for credit.

PLB121
Practicum: Basic Specimen Processing
2 credit(s) 8 period(s) lab
Application of specimen processing techniques in a clinical laboratory setting or health care environment. Prerequisites: A grade of C or better in PLB109 and PLB110. Corequisites: PLB111 and PLB112 or permission of Program Director. Course Notes: PLB121 supports Medical Assisting program completers seeking the Certificate of Completion in Phlebotomy and requires formal acceptance into the program.

PLB122
Practicum: Phlebotomy and Specimen Processing
3 credit(s) 12 period(s) lab
Application of phlebotomy and specimen processing techniques in a clinical laboratory setting or health care environment. Prerequisites: A grade of C or better in PLB109 or permission of Program Director. Prerequisites: A grade of C or better in PLB111 or Corequisites: PLB111 or permission of Program Director.

## PME - Paramedicine

## PME190

## Introduction to ECG Rhythm Analysis and Interpretation for EMS Professionals 3 credit(s) 3 period(s) lecture

Designed to provide an overview of the anatomy and physiology of the cardiovascular system and electrophysiology of the cardiac conduction system for Emergency Medical Service (EMS) professionals. Basic electrocardiograph (ECG) multi-lead acquisition, analysis, and interpretation of various dysrhythmias and cardiovascular conditions. Prerequisites: None.

PME191<br>Introduction to Pharmacology for EMS Professionals<br>3 credit(s) 3 period(s) lecture<br>Designed to provide an overview of the principles of pharmacology and pharmacologic agents utilized in patient management plans. Includes pharmacokinetics, pharmacodynamics, physiology of pharmacology, calculating drug dosages, and drug profiles. Prerequisites: None.

## PME201

## Advanced Cardiac Life Support (ACLS) Initial Provider in Paramedicine

1 credit(s) 2 period(s) lecture + lab
Designed to provide the knowledge and skills needed to recognize and manage cardiopulmonary arrest, acute dysrhythmia, stroke, and acute coronary syndromes according to currentemergency cardiovascular care (ECC) guidelines. Integrates knowledge of basic electrocardiographic rhythm interpretation, pharmacologic agents, and other interventions used in advanced cardiac life support. Prerequisites: Admission into the Paramedic Education Program.

## PME202 <br> Pediatric Advanced Life Support (PALS) Initial Provider in Paramedicine

## 1 credit(s) 1.5 period(s) lecture + lab

Designed to provide the knowledge and skills needed to recognize and manage an infant, child or adolescent in respiratory compromise, circulatory compromise, or cardiopulmonary arrest according to current Pediatric Advanced Life Support (PALS) and emergency cardiovascular care (ECC) guidelines. Integrates knowledge of basic electrocardiographic rhythm interpretation, pharmacologic agents, and other interventions used in pediatric emergencies. Prerequisites: Admission into the Paramedic Education Program.

## PME203

## Pediatric Emergencies for Prehospital Professionals (PEPP) Initial Provider in Paramedicine

 1 credit(s) 1.5 period(s) lecture + labDesigned to provide the knowledge and skills needed to recognize and manage an infant, child or adolescent in respiratory compromise, circulatory compromise, or cardiopulmonary arrest according to current Pediatric Emergencies for Prehospital Professionals (PEPP) and emergency cardiovascular care (ECC) guidelines. Integrates knowledge of basic electrocardiographic rhythm interpretation, pharmacologic agents, and other interventions used in pediatric emergencies.
Prerequisites: Admission into the Paramedic Education Program.

## Neonatal Resuscitation Provider (NRP) in Paramedicine 0.5 credit(s) 1.5 period(s) lecture + lab

Designed to provide the knowledge and skills needed to recognize and manage a neonate with respiratory compromise, circulatory compromise, or cardiopulmonary arrest according to current American Academy of Pediatrics (AAP) and emergency cardiovascular care (ECC) guidelines. Integrates knowledge of basic electrocardiographic rhythm interpretation, pharmacologic agents, and other interventions used in neonatal resuscitation. Prerequisites: Admission into the Paramedic Education Program.

## PME205

## Advanced Medical Life Support (AMLS) Initial Provider in Paramedicine 1 credit(s) 1.5 period(s) lecture + lab

Designed to provide the knowledge and skills needed to recognize and manage various medical conditions according to the National Association of EMTs (NAEMT) Advanced Medical Life Support (AMLS) guidelines. Skills are sequenced and synthesized into simulations. Prerequisites: Admission into the Paramedic Education Program.

## PME206 <br> International Trauma Life Support (ITLS) Provider/Pre-Hospital Trauma Life Support (PHTLS) 1 credit(s) 1.5 period(s) lecture + lab <br> Designed to provide the knowledge and skills needed to recognize and manage various trauma conditions and environmental injuries according to the International Trauma Life Support (ITLS) or Provider/ Pre-Hospital Trauma Life Support (PHTLS) guidelines. Skills are sequenced and synthesized into simulations. Prerequisites: Admission into the Paramedic Education Program.

## PME240

Pharmacology in Paramedicine
3 credit(s) 5 period(s) lecture + lab
Designed to provide an overview of the pathophysiologic principles of pharmacology, pharmacologic agents in the Paramedic scope of practice, and the practice of medication administration. Develops psychomotor skills in the paramedic scope of practice through sequenced lab simulations. Prepares students to integrate comprehensive knowledge of the pathophysiologic principles of pharmacology and pharmacologic agents to formulate a differential diagnosis and to implement a management plan for medical emergencies and trauma. Prerequisites: Admission into the Paramedic Education Program.

## PME245

## Airway and Ventilatory Management in Paramedicine 3 credit(s) 4 period(s) lecture + lab

Designed to prepare students to integrate knowledge of the respiratory system, comprehensive assessment practices, and pharmacologic agents to formulate a differential diagnosis and implement airway and ventilatory management plans for medical emergencies and trauma. Develops psychomotor skills in the paramedic scope of practice through sequenced lab simulations. Prepares students to perform comprehensive assessment and techniques in the paramedic scope of practice for assuring airway patency, adequate mechanical ventilation, and respiration for all age groups.
Prerequisites: Admission into the Paramedic Education Program.

## PME250

## Comprehensive Patient Assessment in Paramedicine

1 credit(s) 3 period(s) lecture + lab Designed to provide an overview of comprehensive patient assessment. Develops psychomotor skills in the paramedic scope of practice. Integrates the pathophysiological significance of comprehensive assessment findings to formulate a differential
diagnosis and implement a management plan for medical emergencies and trauma. Prerequisites: Admission into the Paramedic Education Program.

## PME251

## Medical Emergencies in Paramedicine I

4 credit(s) 8 period(s) lecture + lab
Designed to provide an overview of pathophysiologic principles, epidemiology, comprehensive assessment, differential diagnosis, and pharmacology for respiratory and cardiovascular emergencies. Develops psychomotor skills in the paramedic scope of practice through sequenced lab simulations. Prepares students to implement a management plan in the Paramedic scope of practice for respiratory and cardiovascular emergencies. Prerequisites: Admission into the Paramedic Education Program.

## PME252

## Medical Emergencies in Paramedicine II <br> 4 credit(s) 6 period(s) lecture + lab

Designed to provide an overview of pathophysiologic principles, epidemiology, comprehensive assessment, differential diagnosis, and pharmacology for various medical emergencies.Develops psychomotor skills in the paramedic scope of practice through sequenced lab simulations. Prepares students to implement a management plan in the Paramedic scope of practice for various medical emergencies. Prerequisites: Admission into the Paramedic Education Program.

## PME253

## Medical Emergencies in Paramedicine III

4 credit(s) 4 period(s) lecture + lab
Designed to provide an overview of pathophysiologic principles, epidemiology, comprehensive assessment, differential diagnosis, and pharmacology for various medical conditions. Develops psychomotor skills in the paramedic scope of practice through sequenced lab simulations. Prepares students to implement a management plan in the Paramedic scope of practice for gynecologic, obstetric, pediatric, and geriatric emergencies, neonatal care, and patients with special challenges.
Prerequisites: Admission into the Paramedic Education Program.

## PME254

## Technical Operations in Paramedicine

## 2.5 credit(s) 3 period(s) lecture + lab

Designed to provide an overview of transport operations, incident management, multi- casualty incidents, extrication, special rescue, hazardous materials incidents, terrorism incidents, and disaster response. Examines the Paramedic's operational roles and responsibilities. Prerequisites: Admission into the Paramedic Education Program.

## PME260

## Trauma Patient Management in Paramedicine

2 credit(s) 2 period(s) lecture + lab
Designed to provide an overview of pathophysiologic principles, epidemiology, comprehensive assessment, differential diagnosis, and pharmacology for various trauma conditions. Develops psychomotor skills in the paramedic scope of practice through sequenced lab simulations. Prepares students to implement a management plan in the Paramedic scope of practice for hemorrhage, soft tissue trauma, burns, face and neck trauma, head and spine trauma, chest trauma, abdominal and genitourinary trauma, orthopedic trauma, and environmental emergencies. Prerequisites: Admission into the Paramedic Education Program.

## PME270 <br> Immersive Total Patient Management Experience (ITPME) <br> 2 credit(s) 2 period(s) lecture + lab

Designed to provide immersive-simulated live patient interactive out-of-hospital scenarios. This course creates an environment which facilitates incident stress inoculation and interdisciplinary collaboration. Prerequisites: Admission into the Paramedic Education Program.

## PME280 <br> Preparation for Paramedicine Practicum <br> 1 credit(s) 1 period(s) lecture

Designed to provide an overview of Emergency Medical Service (EMS) systems, safety and wellness, resiliency, health, medical/legal and ethical issues, EMS communications, documentation, and crime scene awareness. Examines the Paramedic's roles and responsibilities to assure personal, patient, and public health and safety in the provision of professional emergency care. Prerequisites: Admission into the Paramedic Education Program.

## PME281

## Paramedicine Clinical Practicum: Comprehensive

$\mathbf{2}$ credit(s) $\mathbf{1 5}$ period(s) lecture + lab
Designed as the precepted Paramedicine clinical practicum in which the student synthesizes standard of care and scope of practice with comprehensive assessment and diagnostic technology, patient advocacy, ethical and professional behaviors, critical thinking, decision-making, and patient management of medical emergencies and trauma in a clinical setting. Prerequisites: Admission into the Paramedic Education Program.

## PME281AA

## Paramedicine Clinical Practicum: Phase I

## 1 credit(s) 7.5 period(s) lecture + lab

Designed as the precepted Paramedicine clinical practicum in which the student synthesizes standard of care and scope of practice with comprehensive assessment and diagnostic technology, patient advocacy, ethical and professional behaviors, critical thinking, decision-making, and patient management of medical emergencies and trauma in a clinical setting. Prerequisites: Admission into the Paramedic Education Program.

## PME281AB

## Paramedicine Clinical Practicum: Phase II

## 1 credit(s) 7.5 period(s) lecture + lab

Designed as the precepted Paramedicine clinical practicum in which the student synthesizes standard of care and scope of practice with comprehensive assessment and diagnostic technology, patient advocacy, ethical and professional behaviors, critical thinking, decision-making, and patient management of medical emergencies and trauma in a clinical setting. Prerequisites: Admission into the Paramedic Education Program.

## PME288

## Paramedicine Comprehensive Field Internship Practicum

5 credit(s) 34 period(s) lecture + lab
Designed as the precepted Paramedicine field internship in which the student synthesizes standard of care and scope of practice with comprehensive assessment and diagnostic technology, patient advocacy, ethical and professional behavior, critical thinking, decision-making, and patient
management of medical emergencies and trauma in the out-of-hospital setting. Prerequisites: Admission into the Paramedic Education Program.

## PME289

Preparation for Paramedic National Credentialing
2 credit(s) 3 period(s) lecture + lab
Designed to provide preparation for the national cognitive and psychomotor examinations, and other credentials required for national and state Paramedic certification/ licensure. Prerequisites: Admission into the Paramedic Education Program.

## POS - Political Science

POS110 POS 1110 SUN:
American National Government
3 credit(s) 3 period(s) lecture
Study of the historical backgrounds, governing principles, and institutions, of the national government of the United States. Prerequisites: None.

## POS115

## Issues in American Politics

3 credit(s) 3 period(s) lecture
Examination of major issues in current affairs in the fields of politics, economics, social relations, foreign affairs, aesthetics, and others through the reading and viewing of secondary information sources. Prerequisites: A grade of C or better in ENG101 or ENG107 or equivalent.

## POS120 POS 1120 suns

## World Politics

## 3 credit(s) 3 period(s) lecture

Introduction to the principles and issues relating to the study of international relations. Evaluation of the political, economic, national, and transnational rationale for international interactions. Prerequisites: None.

## POS125

Issues in World Politics
3 credit(s) 3 period(s) lecture
Contemporary issues and factors in international relations. Stress conditions in civil order, trade and international institutions. May be repeated for a total of six (6) credit hours. Prerequisites: None.

POS130
State and Local Government
3 credit(s) 3 period(s) lecture
Survey of state and local government in the United States. Special attention on Arizona State
Government. Prerequisites: None.

## POS140 POS 2204 suñ

Comparative Government
3 credit(s) 3 period(s) lecture
Overview and evaluation of the sub-field of comparative politics. Covers various national governments from around the world: their structure, system, method of governance. Examines methods of assessing these governments. Prerequisites: None.

## POS180

## United Nations Studies

3 credit(s) 3 period(s) lecture + lab
Historical origins, structural makeup, political and operational characteristics, and legal activities of the United Nations. Analysis of the overall institution's ongoing utility, productivity and creativity.
Prerequisites: None.

## Political Ideologies

3 credit(s) 3 period(s) lecture
Leading political ideas and belief systems, e.g., Marxism, liberalism, conservatism, theories of democracy, and alternative futures. Prerequisites: None.

## POS220

## U.S. and Arizona Constitution

3 credit(s) 3 period(s) lecture
Examination of the United States Constitution and the constitution and government of the State of Arizona. Prerequisites: None.

## POS221

## Arizona Constitution

1 credit(s) 1 period(s) lecture
Examination of the Constitution of the State of Arizona. Equivalent to the second part of POS220. May not enroll in POS220 and POS221 concurrently. Prerequisites: None.

## POS222

## U.S. Constitution

2 credit(s) 2 period(s) lecture
Examination of the United States Constitution. Equivalent to the first part of POS220. May not enroll in POS220 and POS222 concurrently. Prerequisites: None.

## POS223

## Civil Rights and Liberties

3 credit(s) 3 period(s) lecture
The historic background and current status of major civil rights and civil liberties issues in the United States. Prerequisites: None.

## POS281AB <br> Public Policy/Service Internship <br> 3 credit(s) 3 period(s) lab

Field experience in community service, public policy or public service. May be repeated for a total of nine (9) POS281 credit hours; may not repeat specific internship assignment. Prerequisites: Minimum of 15 credit hours at college granting internship with minimum GPA of 3.0 and permission of Instructor. Prerequisite: A grade of C or better in POS280 or Corequisite: POS280.

## POS282AA

## Volunteerism for Political Science: A Service-Learning Experience

## 1 credit(s) 1 period(s) lab

Service-learning field experience within government agencies, political organizations, citizen advocacy groups, and human service organizations/agency. May be repeated for a total of four (4) POS282 credit hours; may not repeat specific agency assignment for more than two (2) credit hours. Standard grading available according to procedures outlined in catalog. Prerequisites: Permission of Instructor.

## POS285

## Political Issues and Public Policy

## 3 credit(s) 3 period(s) lecture + lab

Introduction to public policy, how policy is made, and how public policy decisions are affected.

## Prerequisites: None.

## PSA - Public Safety Administration

PSA301<br>\section*{Foundations of Public Safety Administration}<br>3 credit(s) 3 period(s) lecture

Foundation in the principles and study of public safety administration including legal, political, and social factors. Overview of organizational theory and management, human capital management, resource management, leadership, and ethics that guide administration of diverse public safety organizations.
Prerequisites: None.

## PSA305

Communication Strategies for Public Safety Professionals 3 credit(s) 3 period(s) lecture
Overview of communication and public relations for public safety professionals. Topics include organization's internal and external environment and identifying and addressing public relations situations that emerge in these environments including the use of social media and other news media channels. Emphasis on developing, implementing, and evaluating public relations plans and strategies. Prerequisites: A grade of C or better in [(COM100, or COM110, or COM230, or COM225) and (ENG102 or ENG108)] or permission of Program Director or Department/Division.

## PSA310

## Research Methods for Public Safety Administration

4 credit(s) 6 period(s) lecture + lab Overview of research methods and presentation of research results for public safety administration. Introduction to quantitative and qualitative methods including statistics for conducting and analyzing discipline-specific research within the fields of public safety. Prerequisites: A grade of C or better in [(ENG102 or ENG108), and (MAT14+, or MAT15+, or equivalent), and [MAT206, or PSY230, or (PSY230 and PSY231), or PSY230WL]], or permission of Instructor or Program Director or Department/Division Chair.

## PSA315

## Public Policy and Public Safety Organizations <br> 3 credit(s) 3 period(s) lecture

Overview of public policy as it relates to the administration and management of public safety organizations. Topics include the political environment, laws and regulations, and the interrelationship among law, regulations, budget and finance, and public policy. Focus on current issues surrounding public administration and bureaucracy, as well as how public constituencies can affect public policy decision- making. Prerequisites: A grade of C or better in [PAD100 and (ENG102 or ENG108)], or permission of Instructor or Program Director or Department/Division Chair.

## PSA320

## Human Capital Management for Public Safety Organizations 3 credit(s) 3 period(s) lecture

Examination of the role and functions of human capital management in public safety organizations including recruitment, hiring, retention, and training. Focus on the impact and intersections of strategic planning, employee benefits and compensation, personnel issues, performance management, employment laws, labor relations, and responding to internal and external inquiries as it relates to the administration of public safety organizations. Prerequisites: None.

## Public Safety Leadership <br> 3 credit(s) 3 period(s) lecture

Examines the nature and roles of leadership in public safety, including concepts of organizational culture, leadership principles, and management strategies unique to public safety organizations.
Prerequisites: None.

## PSA405

## Public Safety Finance and Budget

3 credit(s) 3 period(s) lecture
Overview of the public finance system at all levels of government as it relates to the development of a budget for a public safety department. Topics include state and local budget process, revenue and funding sources involving taxes and revenue forecasting, as well as capital planning, projects, and budgets related to public safety. The course will consider alternative sources of public safety funding available to local government entities and stewardship of funds. Prerequisites: None.

## PSA410 <br> Program Planning and Evaluation for Public Safety Organizations 3 credit(s) 3 period(s) lecture

Focus on knowledge and skills required of public safety leaders in strategic planning for the design, development, implementation, and evaluation of social intervention initiatives related to public safety, health, and disaster management. Exploration of theories related to public services considered in the development of programs, the application of evaluation findings, and prioritization of community concerns and resources. Prerequisites: A grade of C or better in PSA310 or permission of Instructor or Program Director or Department/Division Chair.

## PSA439

Critical Incident Management for Public Safety Professionals 3 credit(s) 3 period(s) lecture
In-depth examination of the process of critical incident management for supervisors, encompassing a variety of events that impact public safety organizations. Focus on the four phases of emergency management in relation to critical incident management. Prerequisites: A grade of C or better in (AJS/ FSC147 and AJS/FSC148), or permission of Program Director or Department/Division Chair. Prerequisites or Corequisites: AJS/ FSC149 or permission of Program Director or Department/Division Chair.

PSA449

## Strategic Hazard Mitigation

3 credit(s) 3 period(s) lecture
In-depth examination of the process of strategic hazard mitigation for supervisors, encompassing a variety of events that impact Public Safety Organizations. Focus on mitigation planning to address community risks and vulnerabilities including the stakeholders involved and strategies employed to improve community resilience. Prerequisites: A grade of C or better in PSA439 or permission of Program Director or Department/Division Chair.

## PSA450

21st Century Public Safety Practices
3 credit(s) 3 period(s) lecture
Examination of emerging trends in public safety administration and organizational responsiveness through policy and practice. Topics include an overview of public safety administration, components of
ethical leadership, sustainable and evolving practices, internal and external influences on policy, technology, effective data collection, and strategic planning to address societal and cultural changes in the community and workforce. Prerequisites: None.

PSA460
Crime Scene Coordination for Public Safety Professionals
3 credit(s) 3 period(s) lecture
Overview of the crime scene logistics needed to effectively coordinate the work of law enforcement officers, police dispatch, forensic science services personnel, emergency medical personnel, and others present during crime scene investigations. Prerequisites: A grade of C or better in AJS275, or LET225, or permission of Program Director or Department/Division Chair.

## PSA470

Administrative Law for Public Safety Professionals 3 credit(s) 3 period(s) lecture
Introduction to the basic principles of administrative law for public safety professionals including the structure of federal, state, and local administrative institutions. Topics include the sources of law for administrative agencies, the basic procedures for administrative rulemaking, adjudication, and compliance, as well as judicial review of agency action. Prerequisites: None.

## PSA490

Public Safety Administration Capstone
3 credit(s) 4 period(s) lecture + lab
Completion of a professional project within the field of public safety administration applying concepts covered throughout the program. Students will demonstrate the steps for issue identification, related research, analysis, and presentation of information. Project topics will follow an instructor approval process. Prerequisites: Permission of Program Director or Department/Division Chair.

## PSY - Psychology

## PSY101 PSY 1101 sunm

Introduction to Psychology
3 credit(s) 3 period(s) lecture
To acquaint the student with basic principles, methods and fields of psychology such as learning, memory, emotion, perception, physiological, developmental, intelligence, social and abnormal. Prerequisites: None.

## PSY132

Psychology and Culture
3 credit(s) 3 period(s) lecture
Presents current knowledge about human diversity in behavior and culture using examples from a variety of contexts within western and global societies. Highlights topics in cross-cultural psychology, such as intergroup relations, diverse cognitive styles, ethnocentrism, gender, personality, emotion, language, communication, work and health. The role of enculturation throughout the lifespan will be explored to increase awareness of how behavioral and cognitive principles affect interactions in a multicultural world. Prerequisites: None.

## PSY143

Psychology of Sexual Orientation and Gender Identity
3 credit(s) 3 period(s) lecture
Introduction to the psychological study of sexual orientation and gender identity. Focus on psychological, developmental, social, biological, historical, and cultural aspects. Includes topics related to the recognition and development of sexual orientation and gender identity throughout the lifespan and lived experiences of LGBTQIA+ individuals and communities. Examines prejudice, discrimination, family dynamics, contributions, and current issues impacting LGBTQIA+ individuals, their allies, and communities. Prerequisites: None.

## PSY215

## Introduction to Sport Psychology

3 credit(s) 3 period(s) lecture
Application of the psychological, behavioral, social, cognitive, and humanistic perspectives in psychology to sport. Includes topics such as optimal performance, correlation, motivation, co-action effect, self- actualization, psycho- behavioral techniques, self-efficacy, and the general health benefits of sport participation. Prerequisites: PSY 101 with a grade of ' $\mathrm{C}^{\prime}$ or better or permission of Instructor.

## PSY218

Health Psychology
3 credit(s) 3 period(s) lecture
Behavioral and mental foundations of health, wellness, illness, and disease, and psychological dimensions of medical intervention. Prerequisites: PSY101 with a grade of C or better, or permission of Instructor

## PSY230

## Introduction to Statistics

3 credit(s) 3 period(s) lecture
An introduction to basic concepts in descriptive and inferential statistics, with emphasis upon application to psychology. Consideration given to the methods of data collection, sampling techniques,
graphing of data, and the statistical evaluation of data collected through experimentation. Required of psychology majors. Prerequisites: (A grade of C or better in PSY101 and MAT092 or higher MAT course) or (a grade of C or better in PSY101 and eligibility for MAT112 or higher as indicated by appropriate mathematics placement test score) or permission of Instructor.

## PSY231

## Laboratory for Statistics

## 1 credit(s) 2 period(s) lab

Applications of inferential and descriptive statistics to computers in the field of psychology.
Prerequisites: None. Corequisites: PSY230.

## PSY240

## Developmental Psychology

3 credit(s) 3 period(s) lecture
Human development from conception through death. Includes biological, physical, cognitive, emotional, and sociocultural development across various ages. Prerequisites: A grade of C or better in PSY101 or permission of Instructor. Course Notes: Recommended for students majoring in nursing, education, behavioral, pre-med, and psychology.

## PSY250

## Social Psychology <br> 3 credit(s) 3 period(s) lecture

The scientific study of how people's thoughts, feelings, and behaviors are influenced by other people and situations. Includes how we think about ourselves and others, persuasion and influence, sexual and romantic attraction, friendship and helping others, aggression and prejudice. Prerequisites: PSY101 with a grade of ' C ' or better or permission of the Instructor.

## PSY266

## Psychological Disorders

3 credit(s) 3 period(s) lecture
Distinguishes between healthy psychological functioning and psychological disorders. Includes topics in psychopathology such as problems with anxiety and depression, eating disorders, substance- use, schizophrenia, sexuality, and personality. Also covers causes and treatments of psychological disorders. Prerequisites: A grade of C or better in PSY101 or permission of Instructor.

## PSY277

## Psychology of Human Sexuality

3 credit(s) 3 period(s) lecture
Survey of psychological and physiological aspects of human sexual behavior. Emphasis placed on the integration of the cognitive, emotional, and behavioral factors in sexual functioning. Prerequisites: A grade of C or better in PSY101. Course Notes: PSY277 course may contain adult content. All students under the age of 18 are required to have a signed parental consent form on file, which is on the back of the Under the Age of 18 Enrollment Form.

## PSY290AB PSY 2290

SUNM

## Research Methods

4 credit(s) 6 period(s) lecture and lab
Planning, execution, analysis, and written reporting of psychological research using American Psychological Association guidelines (APA). Surveys the literature, procedures, and instruments in
representative areas of psychological research. Requisites: A grade of C or better required in all Prerequisites. Prerequisites: ENG101 or ENG107. Prerequisites or Corequisites: PSY230 or permission of Instructor.

PSY298
Special Projects
$\mathbf{1 - 3}$ credit(s) $\mathbf{1 - 3}$ period(s) lab
Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance. Professional-type facilities and equipment are made available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development. Prerequisites: None.

## RDG - Reading

In college, most courses involve reading and studying. Thus it is critical for students to know and apply appropriate skills that will enhance academic progress and success. The Reading Department offers a wide variety of reading/study-based courses at different levels. These courses have been designed to develop and improve students' skills so that they can attain personal and/or academic goals. Please Note: See CRE (Critical Reading) courses.

## RDG100

## Successful College Reading

3 credit(s) $\mathbf{3}$ period(s) lecture
Emphasis on reading study strategies for any introductory class in any subject area. Introduction to Learning Management System (LMS), how to successfully read course textbooks and assessments, how to navigate information technology and development of academic vocabulary. Prerequisites: A grade of C or better in ALT100, or RDG081, or appropriate reading placement or permission of Instructor. Corequisites: Any 100-level course in another content area or permission of Instructor. Course Notes: RDG100 satisfies RDG091 requirement. RDG100 may be repeated for a total of twelve (12) credit hours.

## RDG100LL

## Disciplinary Literacy Lab

1 credit(s) 3 period(s) lab
Supplemental instruction for college-level discipline courses. Focus on developing effective reading processes to address a range of literacy needs including reading, writing, digital, numerical, financial and informational literacies. Prerequisites: None. Corequisites: Any 100-level course in another content area or permission of Instructor.

## REC - Recreation

## REC120

Leisure and the Quality of Life 3 credit(s) 3 period(s) lecture
Overview of the historical, psychological, social, and cultural aspects of play, leisure, and recreation and their role in contemporary society. Nature of play and leisure behavior in human development within different cultures and the contribution play, recreation, and leisure make to the quality of life for individuals in today's society. Prerequisites: None.

## REC210

Leisure Delivery Systems
3 credit(s) 3 period(s) lecture
Systematic study of Delivery of Leisure Services in public, commercial, and independent sectors; particular emphasis placed on the urban setting. Prerequisites: None.

## REL - Religious Studies

## REL100 REL 1101 suñ

## World Religions

3 credit(s) 3 period(s) lecture
The development of various religions from the prehistoric to modern times. Political, economic, social and geographic relationships among world religions. Consideration of both Eastern and Western religions. Prerequisites: None.

## REL203/AIS213

## American Indian Religions

3 credit(s) 3 period(s) lecture
An examination of the historical and cultural background of diverse lifeways and worldviews belonging to the peoples indigenous to the North American continent over time, including a study of modern day American Indian beliefs and practices. Prerequisites: A grade of C or better in ENG101 or ENG107 or equivalent.

## REL205

## Religion and the Modern World

 3 credit(s) 3 period(s) lectureIntroduction to the nature and role of religious beliefs and practices in shaping the lives of individuals and societies, with particular attention to the modern world. Prerequisites: A grade of C or better in ENG101, or ENG107, or equivalent.

## REL212

Introduction to Islam
3 credit(s) 3 period(s) lecture
Introduction to history, scriptures, practices and impact of Islam. Prerequisites: None.

## REL270

Introduction to Christianity
3 credit(s) 3 period(s) lecture
The nature and content of the Christian tradition developed over time, with overview of the New Testament, major historical trends and figures, major Christian ideas and practices, and survey of denominations. Prerequisites: None.

## RPM - Recreation Program Management

## RPM150AA

Outdoor Adventure Skills Field Experience
1 credit(s) 2 period(s) lab
Practical application of camping and outdoor skills including camping, equipment selection and use, cooking, fire building, camp programs, backpacking, and safety. Prerequisites: None. Course Note: Course may be repeated for a total of four (4) credits.

## $\underline{\text { SBS - Small Business Management }}$

## SBS200

## Small Business Operations

2 credit(s) 2 period(s) lecture
In-depth analysis of and individual plan development for the day-to-day problems encountered in the operation of a small business. Includes the development of an individual business operations plan including finance, purchasing, production scheduling, maintenance, shipping/receiving, personnel management and insurance/risk management requirements. Investigation of daily problems related to inventory control and business expansion. Prerequisites: None.

## SBS202

## Small Business Bookkeeping and Tax Preparation 1 credit(s) 1 period(s) lecture

Introduces accounting and recordkeeping with emphasis on practical use of financial data for the successful management of a small business. Develops an understanding of the accounting cycle and preparation of financial statements. Includes section on tax consequences and preparation for small business owners. Designed for the non- financially oriented owner/manager of a small business.
Prerequisites: None.

## SBS203

## Financing and Cash Management For a Small Business 1 credit(s) 1 period(s) lecture

Planning for and meeting the financial needs of the small business including cash flow planning, identification of financial needs and sources, equity and debt financing, and preparation of loan packages. Participants complete a financial plan for their individual company, with emphasis on cost controls, sales revenue projection, expense allocation, and inventory cost control. Day-to-day operational budgeting also included. Prerequisites: None.

## SBS204

## Small Business Marketing and Advertising <br> 2 credit(s) 2 period(s) lecture

Introduction to marketing and advertising strategies and methods including business image, target market analysis, and customer buying behavior profile. Analysis and selection of advertising/business promotion methods and timing. Methods of deciding product and market segment focus included. Design of an individual marketing and advertising/ promotion plan. Prerequisites: None.

## SBS213

## Hiring and Managing Employees

1 credit(s) 1 period(s) lecture
Methods and techniques for managing employees in a small business. Includes supervisor's role, leadership styles, interpersonal communications, staff planning, employee work styles, techniques for handling problem employees, and employee motivation. Focuses on real life situations to enable the business owner to gain high performance from their employee team. Includes segment on hiring, new employee orientation, training, benefits, and developing future staffing needs assessment. Prerequisites: None.

## SBS214

Small Business Customer Relations

## 1 credit(s) 1 period(s) lecture

Developing and improving customer relations for the small business. Planning and delivering quality customer service. Includes topics on attitude of employees, customer perceptions and motivations, handling customer dissatisfaction, and developing customer, supplier, vendor, and distributor loyalty. Prerequisites: None.

## SBS216

## Planning for a Small Business

2 credit(s) 2 period(s) lecture
Relates business management issues to a specific small business through development of an individual study plan. Provides on-site review of business operation by trained Instructor. Prerequisites: A grade of C or better in (SBS200 and SBS204) or SBS220 or permission of Instructor.

## SBS217

## Starting/Managing a Home Business

1 credit(s) 1 period(s) lecture
Analysis of the successful operation of a home-based business. Includes study of economic feasibility, practicality, and adjustments for the family. Analysis of the advantages/disadvantages of operating a home-based business, versus a "store-front" business. Review of current trends in home business opportunities and franchises. Descriptions of home businesses that have succeeded in local, national, and international markets. Prerequisites: None.

## SBS220

Internet Marketing for Small Business
2 credit(s) 2 period(s) lecture
Focuses on e-Commerce doing business on the Internet and planning a website. Topics include: how the Internet can help growth and success of business; examples of successful marketing on the Internet; availability of Internet services; necessary hardware and software for marketing on the Internet; determining products/services appropriate for Internet marketing; budget constraints and on-going operations of the Internet site. Prerequisites: None.

## SBS230

## Financial and Tax Management for Small Business

2 credit(s) 2 period(s) lecture
An overview of accounting and record- keeping for the successful management of a small business. Develops an understanding of the accounting cycle and preparation of financial statements. Includes section on tax consequences and the choice of legal entity choice based on taxation. Prerequisites: None.

## SBU - Society and Business

## SBU200

Society and Business
3 credit(s) 3 period(s) lecture
The study and scientific inquiry of issues and demands placed on business enterprise by owners, customers, government, employees and society. Included are social, ethical and public issues and analysis of the social impact of business responses. Prerequisites: None.

## $\underline{\text { SOC - Sociology }}$

## SOC101 SOC 1101 sunim

## Introduction to Sociology

3 credit(s) 3 period(s) lecture
The systematic study of social behavior and human groups, particularly the influence of culture, socialization, social structure, stratification, social institutions, differentiation by region, race, ethnicity, sex/ gender, age, class, and socio/cultural change upon people's attitudes and behaviors. Prerequisites: None.

## SOC110

Drugs and Society
3 credit(s) 3 period(s) lecture
Provides a sociological understanding of drug use and policy. Examines social-cultural factors contributing to use and abuse and effects of commonly used drugs on the individual and society. Reviews current theories and research relating to drug use. Introduces extensive coverage of various methods and statistics for measuring drug use. Explores prevention, intervention, and treatment. Examines public policies concerning drug related issues. Prerequisites: None.

## SOC157

## Sociology of Families and Relationships

3 credit(s) 3 period(s) lecture
Systemic analysis of socio-cultural and historical origins of modern families in the U.S. and their importance, major challenges and changing trends. Explores being single, dating and attraction, love, cohabitation and marriage, family planning and parenthood, conflict and crisis within the family, and divorce. Prerequisites: None.

## SOC/AIS160

## American Indian Law

3 credit(s) 3 period(s) lecture
Analyzes the legal system of the United States Government as it applies to American Indian Nations. Examines how United States legal institutions have impacted Indian sovereignty. Units of analysis include the development of Indian law, United States Supreme Court decisions, Congressional Acts, treaty rights and the development of tribal governments. Focuses on legal institutions that have abridged the property rights of Indian Nations. Prerequisites: None.

## SOC180

## Social Implications of Technology

3 credit(s) 3 period(s) lecture
Effects of development and implementation of technology on society. Historical and multi-cultural comparisons of this process, current concerns addressed, and prospects for the future analyzed.
Prerequisites: None.

## SOC212

## Gender and Society

## 3 credit(s) 3 period(s) lecture

A sociological analysis of the way culture shapes and defines the positions and roles of both men and women in society. Major emphasis on social conditions which may lead to a broadening of gender roles and a reduction of gender role stereotypes and the implications of these changes. Prerequisites: None.

SOC241 SOC 2215 sunim
Race and Ethnic Relations
3 credit(s) 3 period(s) lecture
Examines how the social construction of race shapes social interaction and social institutions. Explores the consequences of power, privilege and oppression among major ethnic and racial groups in the United States. Prerequisites: None.

## SOC245

## Social Deviance

3 credit(s) 3 period(s) lecture
A sociological analysis of social deviance including a review of theories, individual and social implications of deviant labeling, and relevant aspects of social control. Prerequisites: None.

## SOC251 SOC 2250 sunm

## Social Problems <br> 3 credit(s) 3 period(s) lecture

A systematic and in-depth survey of selected social problems and inequalities from a sociological perspective, including what is known about the problem, recent trends, their causes and consequences, individual and societal responses to them, and possible remedies or policies that could address these issues. Issues to be examined may include issues in health care, dependencies, crime/violence, inequalities in race/class/ gender/region/age, family, education, work, the economy, population migration/ immigration, the environment, war and global insecurity. Prerequisites: None.

## SOC265

## Sociology of Aging

3 credit(s) 3 period(s) lecture Examination of the aging process from post adolescence through old age from interdisciplinary and multicultural perspectives.Emphasis on positive participation in major social institutions and the amelioration of age-related problems. Prerequisites: None.

## SOC266

## Sociology Through Film

3 credit(s) 3 period(s) lecture
Examines movie-going and the experience of spectatorship. Studies how motion pictures reflect, influence, and are influenced by American culture and societal institutions. Explores the role of the movie industry as a vehicle for social commentary, analysis, and criticism. Prerequisites: None.

## SPA - Spanish

## SPA101 SPA 1101 <br> Sunm

## Elementary Spanish I

4 credit(s) 4 period(s) lecture
Basic grammar, pronunciation and vocabulary of the Spanish language. Includes the study of Spanishspeaking cultures. Practice of listening, speaking, reading, and writing skills. Prerequisites: None.

## SPA102 SPA 1102 sunm

Elementary Spanish II
4 credit(s) 4 period(s) lecture
Continued study of grammar and vocabulary of the Spanish language and study of Spanish-speaking cultures. Emphasis on speaking, reading, and writing skills. Prerequisites: (A grade of C or better in SPA101 or SPA101AA), or permission of Department or Division. Completion of prerequisites within the last three years is required.

## SPA103

## Elementary Spanish for Spanish Speakers I

4 credit(s) 4 period(s) lecture
Review of basic Spanish grammar and pronunciation. Emphasis on reading and writing skills in Spanish. For native speakers needing review of essential language skills. Prerequisites: Spanish-speaking or departmental approval.

SPA104
Elementary Spanish for Spanish Speakers II
4 credit(s) 4 period(s) lecture
Continued review of grammatical problems in speaking and writing and reading in Spanish.
Prerequisites: A grade of C or better in SPA103 or equivalent or departmental approval. Completion of prerequisites within the last three years is required.

## SPA115

## Beginning Spanish Conversation I

3 credit(s) 3 period(s) lecture
Basic pronunciation, vocabulary, sentence structures, and cultural awareness, necessary to develop speaking and listening skills in Spanish. Prerequisites: None.

## SPA116

## Beginning Spanish Conversation II

3 credit(s) 3 period(s) lecture
Continued study of basic pronunciation, vocabulary, sentence structures, and a cultural awareness necessary to develop speaking and listening skills in Spanish. Prerequisites: A grade of C or better in SPA115, or SPA115AA, or permission of Department or Division. Completion of prerequisites within the last three years is required.

## SPA117

## Health Care Spanish I

3 credit(s) 3 period(s) lecture
Basic conversational Spanish for health care workers or students. Emphasis on basic sentence structure, pronunciation and vocabulary used in health care settings. Prerequisites: None.


#### Abstract

SPA118

\section*{Health Care Spanish II}

3 credit(s) 3 period(s) lecture Basic conversational Spanish for health care personnel or students. Emphasis on basic sentence structure, pronunciation, and vocabulary used in health care settings. Prerequisites: A grade of C or better in SPA117 or permission of Department or Division. Completion of prerequisites within the last three years is required.


## SPA119

## Spanish for Educational Settings I

## 3 credit(s) 3 period(s) lecture

Basic conversational Spanish for teachers, counselors, administrators and other school ed in educational settings. Prerequisites: None.

SPA201 SPA 2201 sunim

## Intermediate Spanish I <br> 4 credit(s) 4 period(s) lecture

Continued study of essential Spanish grammar and Spanish-speaking cultures. Continued practice and development of reading, writing, and speaking skills in Spanish. Emphasis on fluency and accuracy in spoken Spanish. Prerequisites: Grade of C or better in SPA102, or SPA111, or permission of Department or Division. Completion of prerequisites within the last three years is required.

SPA202 SPA 2202 sunm
Intermediate Spanish II
4 credit(s) 4 period(s) lecture
Review of grammar, continued development of Spanish language skills with continued study of the Spanish-speaking cultures. Prerequisites: A grade of C or better in SPA201, or permission of Department or Division. Completion of prerequisites within the last three years is required.

## SPA203

Spanish for Spanish-Speaking Students I
4 credit(s) 4 period(s) lecture
Designed for Spanish-speaking students. Emphasis on written composition, grammar review, punctuation and spelling, literature and conversation. May be taken in lieu of SPA201. Prerequisites: Permission of Instructor or Department Chair.

SPA204

## Spanish for Spanish-Speaking Students II

## 4 credit(s) 4 period(s) lecture

Designed for Spanish-speaking students. Advanced study of Spanish grammar, composition, literature, and conversation. May be taken in lieu of SPA202. Prerequisites: A grade of C or better in SPA203, or SPA201, or permission of Department or Division. Completion of prerequisites within the last three years is required. Course Notes: SPA204 may be taken in lieu of SPA202.

## SPA206

## Spanish for Medical Interpretation II

 3 credit(s) 3 period(s) lectureContinuation of Spanish interpretation for medical interpreters. Medical vocabulary relating to human
anatomy and physiology emphasized. Prerequisites: A grade of B or better in SPA205 or permission of Department or Division. Completion of prerequisites within the last three years is required.

## SPH - Spanish Humanities

## SPH245

Hispanic Heritage in the Southwest
3 credit(s) 3 period(s) lecture
A survey of Hispanic heritage in the Southwest. Cultural and social institutions and their contribution to the development of the region and its heritage. Prerequisites: None.

## SPT - Sports

## SPT271

Sports Medicine Foundations
3 credit(s) 3 period(s) lecture
Introduction to sports medicine knowledge, techniques, and careers. Exploration of current trends in athletic injury prevention, management and rehabilitation including wound care, taping, wrapping, bracing, splinting and protective equipment. Prerequisites: None.

SPT273
Athletic Training: Advanced Wrapping and Taping Techniques
2 credit(s) 2 period(s) lecture
Expands and enhances practical uses of basic taping and wrapping skills. Hands-on experience in the use of braces, athletic taping, and elastic wraps to care for athletic injuries. Prerequisites: A grade of C or better in SPT271 or permission of Instructor.

## SSH - Sustainability/ Social Sciences and Humanities

## SSH111

## Sustainable Cities

 3 credit(s) 3 period(s) lectureIntroduction to the field of sustainability and exploration of the practices leading to the development of sustainable cities. Explores the concept of sustainable development of cities within local, regional, and global contexts. Prerequisites: None.

## SWU - Social Work

## SWU130

## Addictions and Substance Use Disorders

3 credit(s) 3 period(s) lecture
Sociological, psychological and physiological aspects of addictive behaviors and chemical abuse.
Consideration of a variety of treatment programs offered in community agencies. Prerequisites: None.

## SWU171

## Introduction to Social Work

3 credit(s) 3 period(s) lecture
Analysis of contemporary social welfare services and professional social work. Prerequisites: None.

## SWU225

## Statistics for Social Research/Justice and Government

3 credit(s) 3 period(s) lecture
Introductory course in descriptive and inferential statistics for social research. Designed to serve as preparation for interpreting and understanding research related to Justice and Government related agencies. Prerequisites: A grade of C or better in MAT092 or completion of higher-level mathematics course.

## SWU250

## Mindfulness for Stress Management

3 credit(s) 3 period(s) lecture
Introduction to the theory, research and practice behind mindfulness and stress management as it relates to quality-of-life issues and professional self-care. Focus on maintaining a healthy lifestyle and managing personal/professional stress by incorporating evidence-based research on nutrition, mindfulness, communication, positive psychology, exercise, environmental factors contributing to wellness and disease; immune system support, activity management and developing practices that facilitate maintaining living in balance. Prerequisites: None.

## SWU258

## Victimology and Crisis, a Social Services Perspective

## 3 credit(s) 3 period(s) lecture

A social work response to victimology, working with the criminal justice system, evidence-based techniques in crisis intervention, and the importance of a multicultural and global perspective. Includes a therapeutic approach to topics such as sexual assault, family violence, post-traumatic stress disorder, stress management, natural disasters, effective coping skills, appropriate community resources, and the responsiveness of the justice system. Prerequisites: None.

SWU275AA
Case Report Writing I
1 credit(s) 1 period(s) lecture
Documentation skills for human service helpers. Includes privacy and legal issues. Prerequisites: None.

SWU282AA-AC
Volunteerism for Social Work: A Service-Learning Experience

## $1-3$ credit(s) and $\mathbf{1 - 3}$ period(s) lab

Service-learning field experience within private/public agencies, and citizen volunteer groups. May be repeated for a total of six (6) SWU282 credit hours; may not repeat specific assignment for more than three (3) credit hours. Standard grading available according to procedures outlined in catalog.
Prerequisites: Permission of Instructor.
SWU285
Social Services Seminar
1 credit(s) 1 period(s) lecture
Special topics in social services with an emphasis on current issues not covered in other Social Work courses. Prerequisites: None. Course Note: May be repeated for a total of four 4 credit hours.

## SWU291

## Social Service Delivery Systems

3 credit(s) 3 period(s) lecture
Purposes, structures, and delivery systems of human service agencies. Includes 40 Hours of volunteer experience in local human service agencies. Prerequisites: A grade of C or better in SWU171, or permission of Department or Division or Corequisites: SWU171.

## SWU295

## Effective Helping in a Diverse World

3 credit(s) 3 period(s) lecture
Introduction to professional helper communication skills with respect to cross- cultural practice and diversity issues, in a social work setting. Prerequisites: None. SWU171 suggested but not required.

## TEC - Textiles and Clothing

TEC103
Developing Your Fashion Business
2 credit(s) 2 period(s) lecture
Creating and understanding a financial plan, developing operating and control systems, planning growth strategies and a business plan for the Fashion Entrepreneur. Emphasis on fashion merchandise and successful fashion business development. Prerequisites: None.

## TEC105

Cultural Aspects of Clothing
3 credit(s) 3 period(s) lecture
Psychological, aesthetic, and economic factors applied to the systematic study of dress and adornment in relationship to world cultures and the global fashion industry. Prerequisites: None.

## TEC106

## History of Fashion

3 credit(s) 3 period(s) lecture Consideration of historic factors influencing fashion and fashion change with special emphasis on historic costume. Prerequisites: None.

## TEC108

## Flat-Pattern Design

3 credit(s) 4 period(s) lecture + lab
Beginning flat-pattern design techniques. Introductory work with pattern accuracy, markings, style variations, seams, and garment features to create basic designs. Prerequisites: A grade of C or better in TEC110 or permission of Instructor. Course Notes: TEC108 may be repeated for a total of six (6) credit hours.

## TEC110

## Beginning Apparel Construction

3 credit(s) 5 period(s) lecture + lab
Basic apparel construction techniques. Use of commercial patterns and sewing machine in the construction of basic garments. Prerequisites: None.

## TEC111

## Intermediate Apparel Construction

3 credit(s) 5 period(s) lecture + lab
Intermediate clothing construction techniques. Emphasis on fit and construction details of commercial patterns. Prerequisites: A grade of C or better in TEC110 or permission of Instructor. Course Notes: TEC111 may be repeated for a total of twelve (12) credit hours with Permission of Instructor. If student has no previous sewing experience, TEC110 should be taken prior to and not during this course.

## TEC112AQ

## Pattern Alteration and Fit

2 credit(s) 3 period(s) lecture + lab
Structural features of patterns and altering patterns to achieve proper fit. Includes figure irregularities, pattern style variations, fashion, and individual figure problems. Prerequisites: A grade of C or better in TEC111 or permission of Instructor. Course Notes: TEC112AQ may be repeated for a total of six (6) credit hours with Instructor permission.

## TEC112AU

## Sewing Clothing Accessories

3 credit(s) 5 period(s) lecture + lab (Not offered every semester)
Construction of clothing accessories for personal or professional use. Includes overview of accessories, principles of design, selection of fabrics and trims, use of commercial patterns, creation of custom patterns, construction techniques, and evaluation of accessories. Prerequisites: A grade of C or better in TEC111 or permission of Instructor. Course Note: TEC112AU may be repeated for a total of twelve (12) credit hours.

## TEC113

## Textiles: Dyeing

1 credit(s) 1.5 period(s) lecture + lab (Not offered every semester)
Demonstrations and projects emphasizing skills and techniques in creating textile designs on fabric for fashion and interior design applications. Fabric dyeing techniques through hands-on practices such as tie dyeing, shibori dyeing and batik dyeing. Prerequisites: None. Course Notes: TEC113 may be repeated for a total of three (3) credits.

## TEC114

Textiles: Block Printing/Silk Screening
1 credit(s) 2 period(s) lecture + lab (Not offered every semester)
Block printing and silk-screening techniques used to create designs on fabric for apparel and interiors.
Prerequisites: None. Course Notes: TEC114 may be repeated for a total of three (3) credits.

## TEC115

## Textiles: Hand Painting

1 credit(s) 1.5 period(s) lecture + lab
(Not offered every semester)
Techniques used to hand paint designs on textiles for fashion and interior design. Techniques include water color and ombre, marbleizing, stenciling, stamping and various resist methods such as gutta and taping. Includes color theory and design development. Prerequisites: None. Course Notes: TEC115 may be repeated for a total of three (3) credits.

## TEC116

## Textiles: Stitchery and Embellishment

1 credit(s) $\mathbf{1 . 5}$ period(s) lecture + lab (Not offered every semester)
Materials and techniques used for stitchery and embellishment on textiles. Includes color schemes and design development. Prerequisites: None. Course Note: TEC116 may be repeated for a total of three (3) credits.

## TEC120

## Specialty Apparel Construction

3 credit(s) 5 period(s) lecture + lab
Application of specialty fabrics in clothing construction. Emphasis on improved construction quality and garment fit. Prerequisites: A grade of C or better in TEC111, or THP206, or permission of Instructor. Course Notes: TEC120 may be repeated for a total of nine (9) credit hours with permission of Instructor.

## Creative Sewing Machine Use

3 credit(s) 3 period(s) lecture + lab
Use of the sewing machine for other than construction of garments or household items. Emphasis on decorative uses of the sewing machine on items made or purchased by the user. Prerequisites: A grade of C or better in TEC110 or permission of Instructor.

## TEC122

## Sewing with Knits

$\mathbf{3}$ credit(s) 5 period(s) lecture + lab (Not offered every semester)
Skills and techniques used in the construction of garments made from knit fabrics. Prerequisites: A grade of C or better in TEC111, or THP206, or permission of Instructor.

## TEC124

## Advanced Apparel Construction

3 credit(s) 5 period(s) lecture + lab
Advanced garment construction techniques. Emphasis on lined jacket construction and working with patterned and specialty fabrics. Prerequisites: A grade of C or better in TEC111, or THP206, or permission of Instructor. Course Notes: TEC124 may be repeated for a total of twelve (12) credit hours with permission of Instructor.

## TEC125

## Fashion Design

3 credit(s) 3 period(s) lecture
Overview of the fashion design industry. Includes terminology, fashion trends, elements and principles of design, sources of inspiration, fabric selection, sketching and costing a collection, an introduction to pattern making techniques, and global fashion centers' design and manufacturing specialties. Prerequisites: None.

## TEC/INT126

## Sewing for the Home

3 credit(s) 3 period(s) lecture
Provides students systemic skills and knowledge to plan and construct draperies, shades, pillows, bedding and other home furnishings through instructional projects. Emphasizes techniques used in producing textile goods for the home. Prerequisites: None. Course Notes: Basic sewing skills recommended. TEC/INT126 may be repeated for a total of nine (9) credit hours.

## TEC128

## Home Upholstery

3 credit(s) 5 period(s) lecture + lab Demonstration and application of knowledge and skills involved in upholstering stools, chairs, headboards, and other home furnishings. Includes measuring and cutting upholstery fabric and sewing outdoor/indoor cushions. Prerequisites: None. Course
Notes: TEC128 may be repeated for credit.

## TEC129

## Sewing with a Serger

$\mathbf{3}$ credit(s) $\mathbf{5}$ period(s) lecture + lab (Not offered every semester)
Operation of a home serger. Use in constructing, finishing, and decorating garments and home decorations. Home serger required. Prerequisites: A grade of C or better in TEC110 or permission of Instructor.

## TEC133

## Fashion Illustration: Croquis

2 credit(s) 4 period(s) lecture + lab
Techniques for working with female and male croquis. Applications for illustrating clothing on croquis and preparing a fashion layout. Prerequisites: None. Course Notes: TEC133 may be repeated for a total of six (6) credit hours.

## TEC134

## Fashion Illustration I

3 credit(s) 5 period(s) lecture + lab
Proportions and techniques used in drawing fashion figures and clothing. Introduction of media and illustrative styles for portfolio design, trade sketches, and fashion advertisements. Prerequisites: None. Course Notes: TEC134 may be repeated for a total of nine (9) credits.

## TEC135

## Fashion Illustration II <br> 3 credit(s) 5 period(s) lecture + lab

Intermediate-level study of proportion and techniques used in drawing fashion figures and flats. Continued study of garments, fabric textures and patterns. Development of skills in presentation drawing and commencing fashion design portfolio illustrations. Prerequisites: A grade of C or better in TEC134 or permission of Instructor. Course Notes: TEC135 may be repeated for a total of nine (9) credits.

## TEC136

## Fashion Illustration III

$\mathbf{3}$ credit(s) $\mathbf{5}$ period(s) lecture + lab (Not offered every semester)
Advanced-level study of proportions and techniques used in drawing fashion figures, clothing, and flats. Continued study of illustrative styles for garments, fabric textures and patterns. Further development of skills in portfolio presentation. Prerequisites: A grade of C or better in TEC135 or permission of Instructor. Course Notes: TEC136 may be repeated for a total of nine (9) credits.

## TEC138

## Fashion Illustration: Menswear

3 credit(s) 5 period(s) lecture + lab
Study of proportions and techniques used in drawing menswear fashion figures, clothing, accessories, and flats. Focus on the male physique and specific fitting variations of clothing. Introduction of traditional menswear fabrications and poses for tailored clothing and sportswear. Prerequisites: A grade of C or better in TEC134 or permission of Instructor. Course Notes: TEC138 may be repeated for a total of nine (9) credit hours.

## TEC139

## Fashion Illustration: Children's Wear

3 credit(s) 5 period(s) lecture + lab
Study of proportions and techniques used in drawing children's wear fashion figures, clothing, and flats from infants through teenagers. Introduction of body and feature characteristics unique to the various ages of growth for children. Includes emphasis on common clothing styles, fabrics, effects, and details. Prerequisites: A grade of C or better in TEC134 or permission of Instructor.

## TEC143

## Industrial Sewing I

2 credit(s) 3 period(s) lecture + lab
Introduction to industrial sewing machine usage with emphasis on techniques, applications, and stitching control. Basic methods used in constructing, finishing, and decorating apparel. Prerequisites: A grade of C or better in TEC111 or permission of Instructor. Course Notes: TEC143 may be repeated for a total of six (6) credit hours.

## TEC144

## Industrial Sewing II

2 credit(s) 3 period(s) lecture + lab
Use of standard industrial sewing machines with emphasis on techniques, applications, speed, and stitching control. Expanded methods in intermediate and advanced construction, finishing, and decorating apparel. Prerequisites: A grade of C or better in TEC143 or permission of Instructor. Course Notes: TEC144 may be repeated for a total of six (6) credit hours.

## TEC150

## Fashion Show Production

3 credit(s) 4 period(s) lecture + lab Students will learn and experience real-time production techniques and skills of a fashion show. Includes but not limited to, budget planning, project management, marketing, staffing, décor, staging, and production. Prerequisites: None. Course Notes: TEC150 may be repeated for a total of six (6) credit hours.

## TEC221

## Computer-Assisted Fashion Design

3 credit(s) 5 period(s) lecture + lab (Not offered every semester)
The use of computer hardware and software in the fashion design industry. Create and illustrate fashion designs using computer hardware and software. Color and design principles applied in creating an apparel line and developing a portfolio. Prerequisites: A grade of C or better in (TEC125 and TEC134) or permission of Instructor.

## TEC222

## Textiles

3 credit(s) 4 period(s) lecture + lab
Study of textile fibers, yarns, fabrication, color and finishes and their impact on product performance. Includes labeling laws, fiber manufacturing processes, technical textiles, fiber properties, care, end use, and global sustainability efforts. Prerequisites: None.

## TEC223

## Tailoring

3 credit(s) 6 period(s) lecture + lab
Principles of tailoring as applied in the construction of a coat or suit. Alteration of patterns and fitting techniques. Prerequisites: A grade of C or better in TEC124 or permission of Instructor. Course
Note: TEC223 may be repeated for a total of 12 credit hours with permission of Instructor.
TEC224

## Pattern Drafting

2 credit(s) $\mathbf{3}$ period(s) lecture + lab (Not offered every semester)
Draft patterns from measurements of dress forms and human figures. Development of slopers and
garment patterns. Design and produce an original garment using pattern drafting techniques.
Prerequisites: A grade of C or better in TEC111 or permission of Instructor. Course Notes: TEC224 may be repeated for a total of six (6) credit hours.

## TEC225

## Pattern Design I

3 credit(s) 5 period(s) lecture + lab
Creation of pattern designs by flat pattern methods. Produce a variety of styles. Production of an original pattern design and garment. Prerequisites: A grade of C or better in TEC111, or THP206, or permission of Instructor. Course Note: TEC225 may be repeated for a total of twelve (12) credits.

## TEC226

## Draping for Fashion Design

3 credit(s) 5 period(s) lecture + lab
(Not offered every semester)
Manipulation of fabrics on a dress form and/ or live figure to create designs and patterns. Use of woven fabrics to create basic and intermediate designs. Introduction of knitwear draping. Drape and construct an original design. Prerequisites: A grade of C or better in TEC111, or THP206, or permission of Instructor. Course Notes: TEC226 may be repeated for a total of nine credits.

## TEC227

## Couture Sewing

3 credit(s) 5 period(s) lecture + lab (Not offered every semester)
Construction techniques used in couture sewing. Includes fabric selection, fabric preparation, hand sewing, garment shaping, edge finishes, embellishments, and closures. Emphasis on fitting and couture construction techniques used to construct skirts, pants, blouses, dresses, sleeves, pockets, jackets, coats, and evening wear. Prerequisites: A grade of C or better in TEC111, or THP206, or permission of Instructor. Course Note: TEC227 may be repeated for a total of twelve (12) credit hours with permission of Instructor.

## TEC228

## Advanced Draping for Fashion Design

3 credit(s) 5 period(s) lecture + lab (Not offered every semester)
Advanced draping techniques for fashion design. Includes draping jackets/coats, shorts/pants, dresses/gowns and other woven fabrics. Also includes draping swimwear/leotards and other garments in knit fabrics. Drape and construct an original design. Prerequisites: A grade of C or better in TEC226 or permission of Instructor. Course Notes: TEC228 may be repeated for a total of nine (9) credits.

## TEC230

## Pattern Design II

3 credit(s) 5 period(s) lecture + lab (Not offered every semester)
Practical application in designing clothing/ patterns using flat pattern method. Principles of flat pattern and use of sloper reviewed. Includes creation of woven and knit original designs. Prerequisites: A grade of C or better in TEC225 or permission of
Instructor. Course Note: TEC230 may be repeated for a total of twelve (12) credits.

## TEC231

## Pattern Grading

3 credit(s) 5 period(s) lecture + lab (Not offered every semester)
Grading patterns to change sizes. Includes grading terminology, grading methods, figure types, grading charts, types of grade, even and uneven grades, and grading basic and intermediate designs.
Prerequisites: A grade of C or better in TEC111 or permission of Instructor. Course Notes: TEC231 may be repeated for a total of six (6) credit hours.

## TEC232

## Costume Construction

3 credit(s) 5 period(s) lecture + lab (Not offered every semester)
Costume construction techniques applied to period reproduction, vintage, fantasy and anime; stage and dance costumes. Includes alteration of commercial patterns, drafting of original patterns, and fitting techniques. Prerequisites: A grade of C or better in TEC111 and (TEC224, or TEC225, or TEC226, or permission of Instructor). Course Notes: TEC232 may be repeated for a total of twelve (12) credit hours with permission of Instructor.

## TEC233

Computer-Assisted Pattern Making
$\mathbf{3}$ credit(s) 5 period(s) lecture + lab (Not offered every semester)
Pattern making using the computer and various software programs. Includes measuring, block patterns, pattern development, production patterns, modifications for size and fit, and markers. Prerequisites: A grade of C or better in TEC225 or permission of Instructor. Course Notes: TEC233 may be repeated for a total of twelve (12) credit hours with permission of Instructor.

## TEC234

## Vintage Fashion Design

$\mathbf{3}$ credit(s) $\mathbf{5}$ period(s) lecture + lab Research of 20th-century fashions from the 1920s through the 1990s influencing vintage garment styles. Analysis of vintage era and revival trends.Developmentand construction of an original vintage garment/ ensemble including design, fabric selection, and commercial pattern use with flat- patternmaking and/or draping variations. Prerequisites: A grade of C or better in (TEC225 or TEC226) or permission of Instructor. Course Notes: TEC234 may be repeated for a total of twelve (12) credit hours.

## TEC235

## Custom Tailored Pants

2 credit(s) $\mathbf{3}$ period(s) lecture + lab
Designed for the home sewing enthusiast or dressmaker who desires a perfectly fitted pant pattern. Pattern adjustments, selecting proper size, and fitting procedures for a personalized pant. Fabric draft of the basic pant to be fitted on each student. Prerequisites: A grade of C or better in TEC111 or equivalent.

## TEC236

## Portfolio Development

1 credit(s) 3 period(s) lab (Not offered every semester)
This course is designed to assist students in the preparation and presentation of an original professional portfolio. Students will design, produce, and present artistic sketches and illustrations of fashion figures wearing designs, flats for garment designs, and fabric swatches/samples selected for designs. Including but not limited to using computer-assisted design software, presentation boards, and other required components in the field of portfolio development. Prerequisites: A grade of C or better in TEC134 and permission of Department or Division. TEC221 is recommended. Course Notes: TEC236 may be
repeated for a total of three (3) credits.
TEC237
Intermediate Computer-Assisted Fashion Design
3 credit(s) 5 period(s) lecture + lab
Intermediate-level study in the use of computer hardware and software in the fashion design industry. Draw fashion figures, create textile designs, develop and illustrate an original portfolio collection. Prerequisites: A grade of C or better in (TEC134 and TEC221) or permission of Instructor.

TEC238
Industry Patternmaking Standards
1 credit(s) 2 period(s) lecture + lab
Study of patternmaking techniques for industry. Specifications for production patterns, labeling methods, and direction cards. Prerequisites: A grade of C or better in TEC225 or permission of Instructor. Course Notes: TEC238 may be repeated for a total of three (3) credit hours.

## TEC240

Apparel Production Management
2 credit(s) 3 period(s) lecture + lab
Overview of apparel production management for the global marketplace examining component details of the technical package, tech-pack, which include specifications and costing in the most time-efficient manner. Prerequisites: None. Course Notes: TEC240 may be repeated for a total of six (6) credit hours.

## TEC241

## Advanced Computer-Assisted Fashion Design

3 credit(s) 5 period(s) lecture + lab
Advanced techniques and use of computer hardware and software in the fashion design industry. Create and illustrate fashion designs using multiple computer applications. Create advanced textile surface pattern design using color and design principles on the computer. Manipulate CAD pattern design for original patterns, grading, and markers. Create storyboards for product development and personal portfolio. Prerequisites: A grade of C or better in TEC124 and TEC237.

## TEC244

## Industrial Sewing III

2 credit(s) 3 period(s) lecture + lab
Mastery study of industrial sewing machine usage for straight stitch, zigzag, overlock, cover stitch and blind hem machines. Use in detailed or complex constructing, finishing, and decorating apparel and home decor. Prerequisites: A grade of C or better in TEC144 or permission of Instructor. Course Notes: TEC244 may be repeated for a total of six (6) credit hours.

## TEC245

Wardrobe Strategies
3 credit(s) 3 period(s) lecture
Methods of clothing selection, coordination, evaluation, and planning to meet men's and women's wardrobe needs. Prerequisites: None.

## TEC270

## Design Studio

## 3 credit(s) 4 period(s) lab

Design and production of original garments for a line/collection. Includes design inspirations, sketches/illustrations, fabric/ materials selection, pattern development, construction and fit.
Prerequisites: A grade of C or better in (TEC225 or TEC226) or permission of Instructor. Course Notes: TEC270 may be repeated for a total of twelve (12) credit hours.

## TEC271AA

## Fashion Design Internship

1 credit(s) 5 period(s) lab
Work experience in fashion design business or industry. Work hours are coordinated for a minimum of 80 hours per semester. Supervision and evaluation by internship coordinator.
Prerequisites: Permission of Department or Division. Course Notes: TEC271AA may be repeated for a total of three (3) credit hours.

## TEC274AA

Fashion Merchandising Study Tour 1 credit(s) 5 period(s) lab
A tour of the fashion merchandising industry outside the metropolitan Phoenix area. Includes a variety of experiences and activities to enhance awareness of this multifaceted career. Prerequisites: Permission of Department or Division.

## TEC278AA

## Costume Design and Production Internship <br> 1 credit(s) 1 period(s) lab

Costume Design and Production work experience in a business or industry. Supervision and evaluation by an internship coordinator Eighty hours of designated work per credit per semester. Prerequisites: Completion of at least twelve (12) college credits, minimum 2.6 grade point average, and be able to obtain a position related to student's academic or career goals (student's present job may qualify); or permission of Instructor.

## THE - Theatre

THE111 THE 1100 बUN:

## Introduction to Theatre

3 credit(s) 3 period(s) lecture
A survey of theatre, including basic elements and principles of production, styles, and/or historical perspectives of theatre, dramatic literature, and criticism. Prerequisites: None.

## THE118

## Playwriting

## 3 credit(s) 3 period(s) lecture + lab

Practice and study of theories and techniques of writing for the stage; creating characters, dialogue, and plot for monodramas, scenes, and plays. Prerequisites: None.

THE220 THE 2220 sunis
Modern Drama
3 credit(s) 3 period(s) lecture (Spring only)
Analysis of dramatic literature studied within political, historical, and cultural contexts and examined from the perspective of the playwright's structure and style. Prerequisites: A grade of C or better in ENG101 or ENG107 or equivalent.

THE274AC

## Theatre Study Tour

3 credit(s) 15 period(s) lab
A tour that focuses on theatre production outside of the metropolitan Phoenix area. Includes a variety of experiences and activities to enhance knowledge about theatre production. Prerequisites: Department approval.

THE298AA-AC

## Special Projects

$\mathbf{1 - 3}$ credit(s) 1-3 period(s) lab
Organized and tailored around the interests and needs of the individual student. Structured to provide an atmosphere of individualized research and study paralleled by professional expertise and guidance.
Professional-type facilities and equipment are made available for student use. Allows the best aspects of independent study and individualized learning to be combined to maximize student development.
Prerequisites: None.

## THF - Theatre and Film

THF115
Makeup for Stage and Screen
3 credit(s) 4 period(s) lecture + lab
Purposes, materials, and techniques of makeup for stage and screen. Prerequisites: None.

## THF130

## Combat for Stage and Screen

3 credit(s) 4 period(s) lecture + lab
Fundamental techniques and terminology of staged combat with and without weapons. Analysis and performance of safely choreographed violence that tells a story for stage and screen. Prerequisites: None. Course Notes: THF130 may be repeated for a total of twelve (12) credit hours.

## THF/HUM205

## Introduction to Cinema

3 credit(s) 3 period(s) lecture
Survey of the history and development of the art of motion pictures, including criticism of aesthetic and technical elements. Prerequisites: None.

## THF209

Acting for the Camera
3 credit(s) 4 period(s) lecture + lab
Special technical aspects of acting before a camera. Prerequisites: A grade of C or better in THP112 or permission of Instructor.

## THF/HUM210

## Contemporary Cinema

3 credit(s) 3 period(s) lecture
A study of contemporary films, directors and critics with emphasis on evaluating film as an art form.
Prerequisites: None.
THF219
Advanced Acting for the Camera
3 credit(s) 4 period(s) lecture + lab
Focuses on special technical aspects of advanced acting before a camera. Prerequisites: A grade of C or better in THF209 or permission of Instructor.

## THO - Theatre Occupational

THO203
Technical Theatre Production
3 credit(s) 6 period(s) lab
Designed to give college credit to the technical production crews of college theatre productions.
Prerequisites: None. Course Note: THO203 may be repeated for up to a maximum of nine (9) credits.

## THO215

## Advanced Makeup Techniques for Stage and Screen

3 credit(s) 4 period(s) lecture + lab Advanced character analysis and makeup design for stage and screen. Technical application of makeup for stage and screen. Prerequisites: A grade of C or better in THF115.

THO218

## Beginning Stage Lighting

3 credit(s) 4 period(s) lecture + lab
Basic theories of stage lighting for all production types. Emphasis on technical/theoretical facts, artistic/ design concept development, and "teamwork" structure of theatre. Examines stage lighting optics, instrument selection and application, color theory, circuiting and control systems, and basic design. Prerequisites: A grade of C or better in THP213 or permission of Instructor.

## THO219

Introduction to Puppetry
3 credit(s) 4 period(s) lecture + lab
Use of different types of puppets in a variety of performance settings. Practical experience with diverse audiences. Prerequisites: None.

## THO225

Visual Script Analysis
2 credit(s) 2 period(s) lecture
Theory and practice in analysis of dramatic literature for the technician and designer. Emphasis on techniques of script analysis for visual information. Prerequisites: None.

THO226
Theatrical Design: Costuming
3 credit(s) 4 period(s) lecture + lab
Basic techniques involved in researching and designing costumes for the stage. Prerequisites: None.

## THO/AVC246

## Introduction to Digital 3D Fabrication Tools

3 credit(s) 6 period(s) lecture + lab Introduction to concepts and application of computer visualization, modeling, and rapid prototyping for interdisciplinary arts. Students will design sculptures applying 3D computer modeling techniques, rapid prototyping, and other available digital output devices to produce solid models. Prerequisites: None.

## THO250

Stage Properties

## 3 credit(s) 4 period(s) lecture + lab

Introduction to stage properties including design, construction and maintenance features. Provides skills in property design and construction using an assortment of standard materials. Prerequisites: None.

## THO260

Theatrical Design: Rendering
2 credit(s) 4 period(s) lecture + lab
Provides experience and explores multiple illustration techniques used to communicate ideas in entertainment production. Provides basic skills including pictorial drawing and sketching.
Prerequisites: None.

## THO261

## Previsualization Modeling

2 credit(s) 4 period(s) lecture + lab
Provides experience and explores basic previsualization methods used to communicate ideas in entertainment preproduction. Provides basic models skills. Prerequisites: None.

## THO263

## Entertainment Industry Drafting I: 2D CAD

3 credit(s) 6 period(s) lecture + lab
Introduction to Computer Aided Drafting (CAD) for the Entertainment industry, including stage, screen and television venues, using CAD software. Includes basic set-ups, formats, two-dimensional drawing and editing commands, dimensions, text, and plotting typical to entertainment industries. Prerequisites: None.

## THO265

## Introduction to Stage Management

## 3 credit(s) 6 period(s) lecture + lab

The focus of this course is the role of the stage manager. Topics include all aspects of preparation and implementation of rehearsals and performances for the stage manager position. Prerequisites: None.

## THO266

## Production Careers in Technical Theatre

1 credit(s) 2 period(s) lecture + lab
Provides the continuing design, stage management and technical student with opportunities to explore the versatility of the job opportunities within the Tech Theatre industry. Emphasis on presenting the work and talent both in person and on paper. Development of a professional resume and vita. Prerequisites: None.

## THO267

Painting Techniques for Film, TV and Theatre
3 credit(s) 4 period(s) lecture + lab
Theory and skills in scenic artistry. Techniques of painting two-dimensional and threedimensional scenery, tools, and the use of color. Prerequisites: A grade of C or better in THP213.

THO269
Technical Theatre Portfolio Development
1 credit(s) 1 period(s) lab

The analysis and preparation of all elements of a Technical Theatre/Design Portfolio including the use of digital portfolios and application to specific disciplines. Practice with portfolio presentation and maintaining and updating portfolio materials. Prerequisites: None.

## THO/MUP270

Musical Theatre Workshop
2 credit(s) 5 period(s) lecture + lab
Workshop in the study and performance of Musical Theatre repertoire. Includes audition techniques, stage directions, character role development, rehearsal techniques, vocal acting styles and vocal technique, stage movement, crew roles, and performance. Prerequisites: None. Course Notes: THO/MUP270 may be repeated for credit.

## THP - Theatre Performance/ Production

## THP112

Acting I
3 credit(s) 4 period(s) lecture + lab
Fundamental techniques and terminology of acting through physical and vocal expression, improvisation, and monologue and scene work. Emphasis on characterization. Prerequisites: None.

## THP131

## Stage Movement

3 credit(s) 4 period(s) lecture + lab
Movement skills for the actor to develop a flexible, expressive physical instrument. Includes pantomime, physical isolation, and awareness exercises. Prerequisites: None.

## THP151

## Theatre for Youth

3 credit(s) 4 period(s) lecture + lab
Principles and techniques of selecting plays, adapting stories, playwriting, directing, designing, producing, and acting in theatre for youth. The course will provide the opportunity to analyze and experience the production process from creating a script to performing a theatre production for a youth audience. Prerequisites: None.Course Notes: THP151 may be repeated for a total of six (6) credit hours.

## THP201AB

## Theatre Production II

2 credit(s) 4 period(s) lab
Designed to give college credit to the cast and technical production crews of college theatre productions. May be repeated for up to a maximum of four (4) credits. Prerequisites: None.

## THP211

## Creative Drama

3 credit(s) 3 period(s) lecture
Theory and practice of creative drama, including improvisation, storytelling, puppetry, and script and program development in drama, and their application to elementary and secondary school levels.
Prerequisites: None.
THP212
Acting II
3 credit(s) 4 period(s) lecture + lab
Fundamental techniques of acting through script analysis, rehearsal, and performance. Prerequisites: A grade of C or better in THP112 or departmental approval.

## THP213

Introduction to Technical Theatre
4 credit(s) 6 period(s) lecture
Procedures of technical theatre production and demonstration. Topics include design and construction of scenery; lighting and properties. Prerequisites: None.

## THP214

## Directing Techniques

3 credit(s) 4 period(s) lecture + lab
Contemporary theory and practice in directing, the evolution of present-day directing procedures, and a sampling of scripts for directing practice. Principles of script analysis, blocking, casting, rehearsing, and performing. Prerequisites: A grade of C or better in THP112 or THE220, or permission of Instructor.

## THP217

Introduction to Design Scenography
3 credit(s) 4 period(s) lecture + lab
The role of the theatre designer in creating scenic, lighting, costume, sound, and multimedia effects for stage productions. Elements of the design process and communication of dramatic themes and visions to the audience. Prerequisites: None.

## THP/COM271

Voice and Diction
3 credit(s) 3 period(s) lecture
Exercises and techniques to free the voice and improve projection, resonance, and articulation. Covers international phonetic alphabet and standard stage speech. Prerequisites: None.

## THP/STO285

## Creating/Performing Solo/Collaborative Works

3 credit(s) 3 period(s) lecture
Developing, rehearsing, and performing solo and collaborative works for fringe festivals and other storytelling and theatre venues. Prerequisites: None.

## THP296WC

## Cooperative Education

3 credit(s) 15 period(s) lab
Work-college experiences that involve the combined efforts of educators and employers to accomplish an outcome related to the career objectives of the students. Prerequisites: Completion of at least twelve (12) college credits, minimum 2.6 grade point average, and be able to obtain a position related to student's academic or career goals (student's present job may qualify); or permission of Instructor. Corequisites: Must be concurrently enrolled in at least one class which is related to student's major or career interest or with permission of the Instructor.

## WED - Wellness Education

## WED120

Massage Therapy: Anatomy Refresher - Upper Body
1 credit(s) 1 period(s) lecture + lab
This course is designed for individuals in the field of massage therapy and provides a review of upper body musculature affecting the neck, shoulder, spine, elbow and wrist joints. Origins and insertions and resistive stretches included. Prerequisites: None. Course Notes: WED120 may be repeated for a total of six (6) credit hours.

## WED125

## Reiki: Healing and Symbols

## 2 credit(s) 2 period(s) lecture + lab

Introduction to Reiki as a Japanese technique for stress reduction and relaxation that also promotes healing. Instruction in the Usui method of Reiki and its applications to personal health and everyday life. Prerequisites: None. Course Notes: WED125 may be repeated for a total of ten credits.

## WED145

## Reflexology

1 credit(s) 1 period(s) lecture + lab
History and application of specific pressure points on the hands and feet that have correlation to different body organs and systems. Practice of micromovement techniques with the goal of creating a response throughout the body. Prerequisites: None. Course Notes: WED145 may be repeated for a total of six (6) credit hours.

## WED151

## Introduction to Alternative Medicine

3 credit(s) 3 period(s) lecture
Definition of health; exploration of mind- body-spirit connection in health; various therapeutic modalities; identification of strengths and limitations of alternative therapies. Also includes development of ability to critically review written material in the alternative therapy area. Prerequisites: None.

## WED154

## First Aid/ Cardiopulmonary Resuscitation

3 credit(s) 3 period(s) lecture
Cardiopulmonary Resuscitation (CPR) and first aid for the adult, child and infant patients includes Automated External Defibrillator (AED), rescue breathing, obstructed airway, and other first aid procedures. Designed to train citizen responders in skills and procedures required during emergency situation. Prerequisites: None.

## WED162

Meditation and Wellness
1 credit(s) 1 period(s) lecture
Physiology of meditation and its effects on physical and mental health; scholastic abilities and interpersonal relationships; differentiation between meditation and other relaxation techniques. Prerequisites: None.

## WED165

Overview of Massage Therapy<br>2 credit(s) 2 period(s) lecture<br>History of massage; overview of bodywork systems; benefits and indications of massage; legal requirements for practice in Arizona. Prerequisites: None.

## WED170

Principles of Homeopathy
1 credit(s) 1 period(s) lecture
Origins of homeopathy; key concepts; perceptions of disease; schools of homeopathy; scientific studies; preparation of remedies; case taking. Prerequisites: None.

## WED172

## Overview of Herbal Remedies

1 credit(s) 1 period(s) lecture
History and evolution of herbs for healing applications. Preparation, usage, and effects of certain herbs used for healing purposes. Basic literature review skills in the area of herbal medicine. Prerequisites: None.

## WED174

## Myofascial Release

## 1 credit(s) 1 period(s) lecture + lab

Introduction to myofascial release techniques and application. Myofascial Release (MFR) is a therapeutic modality that allows restricted fascia to release from a tightened state. MFR improves nerve conductivity and circulation of blood and lymph, which allows the healing powers of the body to flow to restricted tissues. The result is relief from chronic pain and the potential for healing injured tissue.
Prerequisites: None. Course Notes: WED174 may be repeated for credit. Counts as 13.3 continuing education units (CEUs).

## WED176

## Flower Essences

1 credit(s) 1 period(s) lecture
Healing properties of Bach flower remedies; Bach's development of remedies and his philosophy of healing; use and preparation of a variety of flower essences. Prerequisites: None.

## WED182

## Health Conditions and Popular Herbs

2 credit(s) 2 period(s) lecture
In-depth look at some of today's most popular herbs and their relationship to specific health conditions.
Emphasis on research skills in relation to popular herbs. Includes the effects, uses, and application strategies of herbs. Prerequisites: None. WED172 suggested but not required.

## WED183

## Introduction to Ayurvedic Principles

2 credit(s) 2 period(s) lecture + lab
Introduction to Ayurveda: "the science of life"; a complete system of balancing the body, mind and spirit, originating from ancient India. Introduction to foundational Ayurvedic principles, health philosophy and self-assessment of basic constitution. Application of basic health and self-care practices such as food selection and preparation, exercise and movement, renewal and restoration activities, environmental influences to promote health and well-being. Prerequisites: None. Course Notes:

WED183 may be repeated for a total of six (6) credits.

## WED204

## Establishing a Massage Practice

3 credit(s) 3 period(s) lecture
Explore career options in therapeutic massage, including state licensing requirements, and determine how to lay the groundwork for a successful massage practice. Prerequisites: None.

## WED210

## Sports Massage

2 credit(s) 3 period(s) lecture + lab
Purpose, benefits, and contraindications of sports massage; principles of sports physiology; massage techniques, applications, and procedures; treatment of injuries. Prerequisites: A grade of C or better in WED165 and WED230, or permission of Program Director.

## WED215

## Self-Care for Health Care Professionals

2 credit(s) 5 period(s) lecture + lab
Emphasis on mind-body methods for personal wellness through integration of physical, emotional, social, and spiritual dimensions of being. Development of a personal practice to achieve and sustain a balanced program to support personal health and well-being. Prerequisites: None.

## WED218

Aromatherapy
1 credit(s) 1 period(s) lecture
Physiology of aromatherapy; methods of use; preparation of oils; uses in sports, beauty care, massage, child care, healthcare, at work, and in the home. Prerequisites: None.

## WED220

## Gentle Touch for Individuals Living with Cancer

2 credit(s) 2 period(s) lecture + lab
Introduction to the gentle-touch approach to massage for individuals who are living with or have survived cancer. Overview of cancer and principal cancer treatments. Clinical considerations, including practice guidelines and hands-on adjustments related to cancer and treatment side effects.
Administrative considerations for client intake, treatment plans and session documentation. In addition, comprehensive practical application of massage. Prerequisites: None. Course Notes: Previous training in Swedish strokes and massage draping required. WED220 may be repeated for a total of eight (8) credit hours.

## WED230

Therapeutic Massage Practices I
6 credit(s) 9 period(s) lecture + lab
Principles of professionalism, ethics, and legalities. Includes use of terminology related to massage therapy. Applications, indications, and contraindications of the nine strokes of Swedish massage. Study of the human osseous and muscular structure. Emphasis on normal movement patterns, origins, insertions, and functions of the muscular system. Prerequisites: Acceptance into the Massage Therapy program or permission of Program Director.

## Therapeutic Massage Practices II

6 credit(s) 9 period(s) lecture + lab
Refined application of the nine strokes of Swedish massage and contraindications to avoid. Application of advanced principles and techniques of trigger point therapy, muscle energy technique, stretching, hydrotherapy protocols, hot and cold applications, reflexology, and corporate massage. Study of the human osseous and muscular structure. Emphasis on normal movement patterns and the origin, insertion, and function of the muscular system. Prerequisites: A grade of C or better in WED230.

## WED232

## Therapeutic Massage Practices III

6 credit(s) 10 period(s) lecture + lab
Refinement and integration of technical skills, psychosocial competencies, and role identity. Exploration of techniques to assess and facilitate range of motion and function; purpose, benefits, indications, and contraindications of therapeutic massage for specific neuro-musculoskeletal disorders/ injury and special populations. Application of massage techniques with therapist's pre- and post-client evaluations of the client. Adaptation of massage techniques for special populations. Prerequisites: A grade of C or better in WED231. Corequisite: WED250, or permission of Program Director.

WED250AB
Clinical Practicum: Part II
1.5 credit(s) 3 period(s) lab

Continued application of fundamental massage techniques. Prerequisites: A grade of C or better in WED250AA

## WED297AA-AC

## Special Topics: Therapeutic Massage

1-3 credit(s) 1-3 period(s) lecture + lab
Explores a special topic related to therapeutic massage. Topics vary and include concepts relevant to those pursing career in the therapeutic massage. Prerequisites: None.

## WST - Women's Studies

WST100
Introduction to Women's Gender Studies
3 credit(s) 3 period(s) lecture
Introduction to critical issues in women's studies. Prerequisites: None.

## WST120

## Gender, Class, and Race

3 credit(s) 3 period(s) lecture
A feminist discussion of gender, class and race as basic and central social categories that determine how we see ourselves and others and how they circumscribe our opportunities and privileges in American society. Prerequisites: None.

## WST128

## Law and Violence Against Women

3 credit(s) 3 period(s) lecture
Covers cases and materials on systems of oppression particularly as related to women in our society. Areas covered include battering, sexual harassment, sexual assault, prostitution, and pornography as exemplified in present-day society. Designed to give students the ability to identify problem of violence against women and participate in current societal discourse on various ways to resolve them.
Prerequisites: None.
WST160
Women and the Early American Experience
3 credit(s) 3 period(s) lecture
Introduction to American women's history, from the colonial period to suffrage in 1920, based on a feminist perspective. Prerequisites: None.

## WST161

American Women Since 1920
3 credit(s) 3 period(s) lecture
Continuation of the history of women in America from 1920 to the present, based on a feminist perspective. Includes discussion of the roles and status of immigrant and ethnic minority women.
Prerequisites: None.
WST206

## La Mujer

3 credit(s) 3 period(s) lecture
Analysis and discussion of critical issues for Latinas in America today. Prerequisites: None.

## WST/AFR207

## Black Women

3 credit(s) 3 period(s) lecture
Analysis and discussion of critical issues for Black women in America today. Prerequisites: None.

## WST/HUM209

Women and Films
3 credit(s) 3 period(s) lecture

Analysis of images of women in films from both historical and contemporary perspectives. Prerequisites: None.

WST244
Women in Muslim Societies
3 credit(s) 3 period(s) lecture
Overview of Muslim women's religious and secular roles and rights. Relationship of the Qur'an and Hadiths' teachings on women to the interpretations of those teachings within the variegated cultural contexts of Islam. Prerequisites: None.

WST/ENH285
Contemporary Women Writers
3 credit(s) 3 period(s) lecture
Explores twentieth century literature (short stories, essays, plays, and poetry) written by women and about women. Focus on themes relevant to women's lives regardless of age, creed, or ethnic background. Prerequisites: None.

WST/REL290
Women and World Religions
3 credit(s) 3 period(s) lecture
Focus on the role of women in several organized religions and/or religious sects. Study of myth and symbols as they are used to establish, maintain, and enforce sex-roles within specific cultural contexts around the world. Prerequisites: None.

## Maricopa Community Colleges

Field of Interest Matrix 2023-2024

## DESCRIPTION

The Maricopa County Community College Field of Interest Matrix identifies all programs currently available for offering within the ten (10) community colleges and skill centers of the district. The programs are grouped under Field of Interest as requested by the colleges. For specific information regarding individual programs, contact the college(s) listed as participating institutions.

## Applied Technology

PROGRAM INSTITUTION

| Air Conditioning and Electrical Accessories | GW |
| :---: | :---: |
| Air Conditioning/Refrigeration/Facilities | GW |
| Aircraft Maintenance Technology | CG |
| Aircraft Maintenance Technology-Airframe | CG |
| Aircraft Maintenance Technology-Powerplant | CG |
| Airway Science Technology, Flight Emphasis | CG |
| Applied Electrical Technologies | RS |
| Architectural and Civil CAD Technology | GC |
| Architectural Technology | SC |
| Automated Industrial Technology | EM MC |
| Automated Industrial Technology I | EM MC |
| Automated Industrial Technology II | EM MC |
| Automotive Automatic Transmission and Transaxle | GC GW MC |
| Automotive Brake Systems | GC GW MC |
| Automotive Chassis | GC GW MC |
| Automotive Drive Train | GC GW MC |
| Automotive Electrical, Heating, Ventilation and Air Conditioning Systems | GC GW MC |
| Automotive Electronic/Electrical Systems | GC GW MC |
| Automotive Engine and Operations Management | GC GW MC |
| Automotive Engine Management and Repair | GC GW MC |
| Automotive Engine Repair | GC GW MC |
| Automotive Heating, Ventilation and Air Conditioning Systems | GC GW MC |
| Automotive Maintenance and Light Repair | GC GW MC |

## Maricopa Community Colleges

Field of Interest Matrix 2023-2024

| Automotive Manual Drive Train and Axles | GC GW MC |
| :---: | :---: |
| Automotive Service | GC GW MC |
| Automotive Steering and Suspension | GC GW MC |
| Basic Automotive Maintenance | RS |
| Brakes, Alignment, Suspension and Steering | MC |
| Building Inspection | MC |
| Cable and Wire Harness Assembly | MC |
| CAD Application | GC |
| CAD Fundamentals | GC |
| Carpenter Apprenticeship | GW |
| Caterpillar Technician Training | MC |
| Certified Flight Instructor Instrument Airplane Rating | CG |
| Clean Energy Management | PC |
| CNC Machine Operator | GW MC |
| CNC Machining I | GW MC |
| CNC Machining II | GW MC |
| Collision Repair Technician | GW |
| Computer Aided Drafting | MC |
| Construction Building Codes | MC |
| Construction Management | MC |
| Construction Safety OSHA 30 | MC |
| Construction Technology | MC SM |
| Construction Trades - Mechanical Trades: Pipefitting | GW |
| Construction Trades - Mechanical Trades: Plumbing | GW |
| Construction Trades - Mechanical Trades: Sheet Metal | GW |
| Construction Trades: Carpentry | GW MC RS SM |
| Construction Trades: Carpentry, Commercial and Residential | GW MC RS SM |
| Construction Trades: Construction Management | MC |
| Construction Trades: Electrical | GW MC RS SM |
| Construction Trades: Electrical, Commercial and Residential | GW MC RS SM |

## Maricopa Community Colleges

Field of Interest Matrix 2023-2024

| Construction Trades: Electricity | GW |
| :--- | :--- |
| Construction Trades: Heat and Frost Insulation | GW |
| Construction Trades: Ironworking | GW |
| Construction Trades: Millwrighting | GW |
| Construction Trades: Painting and Drywalling | GW |
| Construction Trades: Plumbing | GW MC RS SM |
| Construction Trades: Plumbing, Commercial and Residential | GW |
| Construction Trades: Pre-Apprenticeship | MC |
| Drafting and Design Technology | EM |
| Electrical Systems Technology | GW |
| Electrical Technology | GW |
| Electrical Technology - Commercial Wiring | GW |
| Electrical Technology - Industrial Wiring | GW |
| Electrical Technology: Residential Wiring | EM |
| Energy and Industrial Technology | GW |
| Engine Performance and Diagnosis | GW |
| Environmental Science and Water Resources Technologies | GW |
| Environmental Science Technology | GW |
| HVAC Commercial Installation and Service Technician | GW |
| HVAC Residential Installation and Service Technician | GW |
| Industrial Design Technology | GW |
| Industrial Design Technology: Design Specialist | RC |
| Industrial Sewing | MC |
| International Residential Code | RS |
| Introduction to Semiconductor Manufacturing |  |
| J-STD Soldering Certification | Lineman Technology Level I |
| Lineman Technology Level II | Lineman Technology Level III |
| Lineman Technology Level IV | GS |
|  |  |
|  |  |

## Maricopa Community Colleges

## Field of Interest Matrix 2023-2024

| Manufacturing Production Technology | MC |
| :---: | :---: |
| Mechanical Drafting | MC |
| Mechanical Systems Technology | EM |
| Millwrighting | GW |
| Nuclear Power Technology | EM |
| Precision Optics Level I | RS |
| Precision Optics Level II | RS |
| Quality Assurance | GW |
| Robotics Technology | EM MC |
| Salt River Project Relay Apprentice | MC |
| Semiconductor Manufacturing | RS |
| Unmanned Aircraft Systems | CG |
| Water and Wastewater Treatment | GW |
| Welding | MC |
| Welding: Fundamentals | GW MC |
| Welding: Gas Metal / Flux Cored Arc Welding (GMAW)/(FCAW) | MC |
| Welding: Gas Tungsten Arc Welding (GTAW) Ferrous | MC |
| Welding: Gas Tungsten Arc Welding (GTAW) Ferrous and Non-Ferrous | GW |
| Welding: Gas Tungsten Arc Welding (GTAW) Non-Ferrous | MC |
| Welding: Shielded Metal Arc Welding (SMAW) | GW |
| Welding: Shielded Metal Arc Welding (SMAW) Pipe | GW MC |
| Welding: Shielded Metal Arc Welding (SMAW) Plate | MC |

## Maricopa Community Colleges

Field of Interest Matrix 2023-2024

## Behavioral Science and Human Services

 PROGRAMINSTITUTION

| Addictions and Substance Use Disorders | RS |
| :---: | :---: |
| Addictions and Substance Use Disorders Level I | RS |
| Addictions and Substance Use Disorders Level II | RS |
| Administration of Justice | CG EM GC MC PC PV RS SC SM |
| Administration of Justice Studies | CG EM GC MC PC PV RS SC SM |
| Adolescent Studies | PC |
| Advanced Behavioral Sciences | GC SM |
| Advanced Corrections and Detention | RS |
| Advanced Juvenile Corrections | RS |
| Associate in Arts, Emphasis in Counseling and Applied Psychological Science | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in Criminal Justice | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in Family Life Education | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in Law and Policy | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in Political Science | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in Psychology | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in Social Work | CG EM GC GW MC PC PV RS SC SM |
| Basic Corrections | RS |
| Basic Detention | RS |
| Behavioral Sciences (AAS, CCL) | GC SM |
| Behavioral Sciences (BS) | SM |
| Child and Family Organizations Management and Administration | GC RS |

## Maricopa Community Colleges

## Field of Interest Matrix 2023-2024

| Community Emergency Response Team (CERT): Level I | PC |
| :---: | :---: |
| Corrections | CG EM GC MC PC PV RS SC SM |
| Corrections and Detention | RS |
| Crime Scene Investigation | CG GC MC PC SC SM |
| Developmental Disabilities Specialist | GC |
| Driver Operator | GC MC PC PV |
| Emergency Communications | RS |
| Emergency Communications and Deployment | PC |
| Emergency Management | GC MC PC PV |
| Fingerprint Identification and Photography | CG GC MC PC SC SM |
| Fire Science | GC MC PC PV |
| Fire Service Management | GC MC PC PV |
| Firearms | RS |
| Firefighter Operations | GC MC PC PV |
| Forensic Science | $\begin{aligned} & \text { CG GC MC PC PV SC } \\ & \text { SM } \end{aligned}$ |
| Foundations of Behavioral Sciences | GC SM |
| Hazardous Materials Response | PC |
| Homeland Security | CG GC PC RS SM |
| Juvenile Corrections | RS |
| Law Enforcement | CG EM GC MC PC PV RS SC SM |
| Law Enforcement Field Training | RS |
| Law Enforcement Investigation | GC RS |
| Law Enforcement Training | CG GC RS |
| Law Enforcement Training Academy | CG GC RS |
| Leadership in Public Safety Organizations | CG GC PC RS |
| Legal Studies | CG EM GC MC PC PV RS SM |

## Maricopa Community Colleges

## Field of Interest Matrix 2023-2024

| Non-Sworn Fire Service Professional | GC MC PC PV |
| :--- | :--- |
| Paralegal | RS |
| Paralegal Studies | PC |
| Professional Addictions Counseling | RS |
| Public Safety Administration (BAS) | PC RS |
| Public Safety Leadership | RS |
| Public Safety Technology | RS |
| Search Warrant Preparation | RS |
| Substance Use Prevention and Interventions | PC |
| Terrorism Liaison Training: Level I | CG GC MC PC PV RS |
| Terrorism Liaison Training: Level II | RS |
| Victimology | RS |
| Workforce Development and Community Re-Entry |  |
| Workforce Development: Foundations in Addictions and Substance Use |  |
| Disorders |  |

## Maricopa Community Colleges

Field of Interest Matrix 2023-2024
Business, Entrepreneurialism, and Management PROGRAM

INSTITUTION

| Accounting | CG EM GC GW MC PC PV RS SC SM |
| :---: | :---: |
| Administrative Professional | EM GC GW MC PC PV SM |
| Advocate Driven Healthcare: Customer Service | RS |
| Airline Operations | RS |
| Airline Operations: Reservations and Ticketing Services | RS |
| Apprentice Meat Cutter | GW |
| Associate in Business, General Requirements (ABUS-GR) | CG EM GC GW MC PC PV RS SC SM |
| Associate in Business, Special Requirements (ABUS-SR) | CG EM GC GW MC PC PV RS SC SM |
| Automobile Insurance Claims: Customer Service | RS |
| Automobile Insurance: Customer Service | RS |
| Automobile Insurance: Policy Services | RS |
| Automobile Insurance: Sales | RS |
| Automobile Insurance: Sales Service | RS |
| Bank Account Management: Customer Service | RS |
| Banking and Finance | GW PC |
| Beauty and Wellness | GW MC |
| Broadband Telecommunications | RS |
| Broadband Telecommunications: Field Operations | RS |
| Business Administration Fastrack | GC MC PC SC |
| Business Technology Specialist | GW |
| Business Technology: Customer Service | RS |
| Cannabis Business Administration and Management | SC |
| Cannabis Business Advanced Entrepreneurship | SC |
| Cannabis Business Fundamentals | SC |
| Certified Bookkeeping | GC PC PV RS SC |

## Maricopa Community Colleges

Field of Interest Matrix 2023-2024

| Commercial Baking and Pastry | EM PC SC |
| :--- | :--- |
| Commercial Real Estate | GC MC SC SM |
| Court Reporting: Judicial | GW |
| Credit Counseling: Customer Service | RS |
| Culinary Arts | EM SC |
| Culinary Arts I | EM SC |
| Culinary Arts II | EM SC |
| Culinary Fundamentals | SC |
| Debt Resolution: Customer Service | RS |
| Debt Resolution: Sales | RS |
| Enrolled Agent | CG GC MC PC PV RS SC |
| SM |  |
| Entrepreneurial Studies Level I | GC GW MC PC PV RS |
| Sntrepreneurial Studies Level II | GC GW MC PC RS SC |
| SM |  |
| Esports | CG GC PC PV RS SM |
| Fashion Merchandising | MC PC |
| Financial Industry | GW |
| Financial Service | CG GC GW MC PC PV |
| Financial Services Retirement Accounts: Customer Service | SC SM |
| General Business | RS |
| Hospitality: Golf Management | SG EM GC GW MC PC |
| Hospitality: Hotel Management | SV RS SC SM |
| Hospitality: Restaurant Management | SC |
| Hospitality: Spa and Wellness Center Management |  |
| Sospitality: Tourism Development and Management |  |
| SC |  |
|  | SC RS SC |
|  |  |

## Maricopa Community Colleges

Field of Interest Matrix 2023-2024

| Insurance: Customer Service | RS |
| :--- | :--- |
| Licensed Residential Appraiser | MC |
| Loan Consolidation: Customer Service | RS |
| Management | CG GC MC PC PV RS SC |
| SM |  |

## Maricopa Community Colleges

Field of Interest Matrix 2023-2024

| State Service Leadership: ADOT Leads | GW |
| :--- | :--- |
| Telecommunications Collections: Customer Service | RS |
| Utilities: Customer Service | RS |
| Water Services: Customer Service | RS |
| Web Hosting: Customer Service | RS |

## Maricopa Community Colleges

Field of Interest Matrix 2023-2024
Computer and Information Technology PROGRAM

INSTITUTION

| Adobe Foundations: Animation and Graphics Production | CG GC MC PV SM |
| :---: | :---: |
| Adobe Foundations: Audio and Video Production | MC SM |
| Amazon Web Services Cloud Associate | CG GC GW MC PC PV SC SM |
| Amazon Web Services Cloud Practitioner | CG GC GW MC PC PV SC SM |
| Amazon Web Services Cloud Specialist | CG GC GW MC PC PV SC SM |
| Android App Development | CG GW MC PC RS SM |
| Associate in Science, Emphasis in Computer Science | CG EM GC GW MC PC PV RS SC SM |
| Blockchain Technology | RS |
| Cisco Certified Network Professional: Enterprise | CG GC GW MC PV SC SM |
| Cisco Certified Network Professional: Enterprise Advanced Routing and Services | $\begin{aligned} & \text { CG GC GW MC PV SC } \\ & \text { SM } \end{aligned}$ |
| Cisco Certified Network Professional: Enterprise Core | CG GC GW MC PV SC SM |
| Cisco Network Administration and Security | CG EM GC GW MC PV SC SM |
| Cisco Network Administration: CCNA | CG EM GC GW MC PC PV SC SM |
| Cisco Network Administration: CCNP | CG GC MC PC SC SM |
| CompTIA A+Certification Prep | GW |
| CompTIA Security+ Certification Prep | GW |
| Computer Information Systems | GW |
| Computer Support Specialist | GW |
| Computer System Configuration and Support | CG EM GC GW MC PC PV RS SC SM |

## Maricopa Community Colleges

Field of Interest Matrix 2023-2024

| Computer System Configuration and Support, Linux | CG EM GC GW MC PC PV SC SM |
| :---: | :---: |
| Computer System Configuration and Support, Network | CG EM GC GW MC PC PV RS SC SM |
| Computer System Configuration and Support, Security | CG EM GC GW MC PC PV RS SC SM |
| Critical Infrastructure | EM GC |
| Cross Functional Design and Web Essentials | SC |
| Cross-Platform App Development | GW MC PC RS SM |
| Cyber Engineering | CG EM GC MC PC PV RS SC SM |
| Cyber Operations | CG GC GW MC PV SM |
| Cybersecurity | CG EM GC GW MC PC PV RS SC SM |
| Cybersecurity Fundamentals | CG EM GC GW MC PC PV RS SC SM |
| Data Analytics | CG EM GW MC PV RS SC |
| Data Analytics and Programming (BAS) | MC |
| Database Development | EM MC SC |
| Desktop Support | CG EM GC GW MC PC PV RS SC SM |
| Foundations of Mobile App Development | MC PC RS SM |
| Information Security | GC |
| Information Security Technology | GC |
| Information Technology | CG EM GC GW MC PC PV RS SC SM |
| Information Technology (BAS) | PC |
| iOS App Development | CG GC GW MC PC PV RS SC SM |
| IT Security Associate | EM |
| Kubernetes Administration | CG MC |

## Maricopa Community Colleges

Field of Interest Matrix 2023-2024

| Kubernetes Application Development | CG MC |
| :---: | :---: |
| Kubernetes Security | CG MC |
| Linux Associate | CG EM GC GW MC PC PV SC SM |
| Linux System Administration | CG EM GC GW MC PC PV SC SM |
| Microsoft Desktop Associate | CG EM GC GW MC PC PV SC SM |
| Microsoft Office Professional | CG EM GC GW MC PC PV RS SC SM |
| Microsoft Office Specialist | CG GC GW MC PV RS SC SM |
| Microsoft System Administration | CG GC MC PC PV |
| Mobile App Development | MC PC PV RS SC SM |
| Native Mobile App Development | MC PC PV RS SM |
| Network and Cyber Fundamentals | GW |
| Network and Systems Administration | CG EM GC GW MC PC PV SC SM |
| Network Specialist | GW |
| Network Support Specialist | GW |
| Network Support Technician | GW |
| Oracle Database Operations | CG |
| Programming | RS SM |
| Programming and Systems Analysis | CG EM GC MC PC PV RS SC |
| Programming and Systems Analysis Level I | $\begin{aligned} & \text { CG EM GC MC PC PV } \\ & \text { RS SC } \end{aligned}$ |
| Programming and Systems Analysis Level II | CG EM GC MC PC PV RS SC |
| Python Applications | CG MC SM |
| Red Hat Linux Administrator | CG EM GC GW MC PC PV SC SM |

## Maricopa Community Colleges

## Field of Interest Matrix 2023-2024

| Red Hat Linux Engineer | CG EM GC GW MC PC <br> PV SC SM |
| :--- | :--- |
| Security Specialist | GW |
| Video Game Production | GC MC PV |
| Video Game Production: Audio and Sound | GC MC PV |
| Video Game Production: Coding and Scripting | GC MC PV |
| Video Game Production: Game Art | GC MC PV |
| Video Game Production: Game Narrative | GM GC GW MC PC SC |
| VMware Foundations | EM GC GW MC PC SC |
| VMware Network Administrator | CG GC GW MC PC PV |
| VMware Systems Administrator | RS SM SC |
| Web App Development | CG EM GC MC PV RS |
| SC SM |  |
| Web Design | CG EM GC MC PC PV |
| Web Development | RGS SC SM |
| Web Design/Development | GW SC SM |
|  | GMC PC RS SM |

## Maricopa Community Colleges

## Field of Interest Matrix 2023-2024

Culture and Society
PROGRAM
INSTITUTION

| African-American Studies | MC |
| :---: | :---: |
| American Indian Studies | MC PC SC |
| Applied Bilingual Spanish Language Skills | SM |
| Applied Storytelling | EM SM |
| Associate in Arts, Emphasis in American Indian Studies | CG EM GC GW MC PC PV SC SM |
| Associate in Arts, Emphasis in Anthropology | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in Communication | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in Economics | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in English (Creative Writing) | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in English (Literature) | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in History | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in Humanities | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in Information Studies and eSociety | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in Japanese | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in Journalism and New Media Studies | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in Philosophy | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in Religious Studies | CG EM GC GW MC PC PV RS SC SM |

## Maricopa Community Colleges

Field of Interest Matrix 2023-2024

| Associate in Arts, Emphasis in Sociology | CG EM GC GW MC PC PV RS SC SM |
| :---: | :---: |
| Associate in Arts, Emphasis in Spanish | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in Women and Gender Studies | CG EM GC GW MC PC PV RS SC SM |
| Chicana and Chicano Studies | CG GC PC |
| Communication Competence in the Workplace | GC MC |
| Communication Skills for Non-Native English Speakers | GC MC |
| Creative Writing | CG EM GC MC PC PV RS |
| Deaf Studies | PC |
| Foundations of Storytelling | EM SM |
| Global Citizenship | MC |
| International Studies | PC |
| Interpreter Preparation | PC |
| Journalism and New Media Studies | MC |
| Language and Literary Culture of the USA | RS |
| Language Studies | CG GC MC RS |
| Oral Communication Fluency for Non-Native English Speakers | GC MC |
| Public Relations | MC |
| Southwest Studies | PC |
| Spanish Language and Culture | CG MC RS |
| Sustainability and Ecological Literacy | EM RS SM |
| Sustaining and Advancing Indigenous Nations | SC |
| Traditional and Fact-Based Storytelling | EM SM |
| Women and Gender Studies | CG MC |

## Maricopa Community Colleges

## Field of Interest Matrix 2023-2024

## Education

PROGRAM
INSTITUTION

| Associate in Arts, Elementary Education (AAEE) | CG EM GC GW MC PC <br> PV RS SC SM |
| :--- | :--- |
| Associate in Arts, Emphasis in Early Childhood Education | CG EM GC GW MC PC <br> PV RS SC SM |
| Associate in Arts, Emphasis in Educational Studies Early Childhood | CG EM GC GW MC PC <br> PV RS SC SM |
| Associate in Arts, Emphasis in Secondary Education | CG EM GC GW MC PC <br> PV RS SC SM |
| Associate in Science, Emphasis in Secondary Education | CG EM GC GW MC PC <br> PV RS SC SM |
| Early Childhood Education | CG GC MC PC PV RS |
| Early Childhood Education - Dual Language (BA) | MC |
| Early Childhood Education Management and Administration | PV RS |
| Elementary Education and Special Education (BA) | GC PV RS |
| Foundations of Early Childhood Education | CG EM GC MC PC PV |
| RS |  |
| Gifted Education | EM |
| Infant and Toddler Development | GC PV RS |
| Instructional Assistance | MC SM |
| K-12 eLearning Design | RS |
| K-12 Online Teaching | RS |

## Maricopa Community Colleges

Field of Interest Matrix 2023-2024

## Health Sciences

PROGRAM INSTITUTION

| Accelerated Ophthalmic Medical Assistant | GW |
| :--- | :--- |
| Accelerated Pharmacy Technician | GW |
| Aesthetician (24 Hours Per Week) | GW |
| Aesthetics Instructor | GG EM GC GW MC PC |
| Associate in Arts, Emphasis in Community Health | CG EM GC GW MC PC |
|  | PV RS SC SM |
| Associate in Arts, Emphasis in Exercise Science | CG EM GC GW MC PC |
| Associate in Arts, Emphasis in Nutritional Science | CG EM GC GW MC PC |
| Pssociate in Arts, Emphasis in Speech and Hearing Science | GW PC |
| Basic Phlebotomy | PV |
| Clinical Data Coordination | PC |
| Clinical Medical Assisting | PC |
| Clinical Phlebotomy | PV |
| Clinical Research Coordination | GC MC PC PV |
| Community Health Paramedicine | PV SC |
| Community Health Work | GW |
| Computed Tomography | GW |
| Cosmetologist (32 Hours Per Week) | GW |
| Cosmetology Instructor | GC MC PC PV |
| Critical Care Paramedicine | FC |
| Dental Assisting | GC PC RS |
| Dental Hygiene | GW |
| Diagnostic Medical Sonography |  |
| Electrocardiogram (ECG) Technician | Electroneurodiagnostic (END) Technology |
|  |  |

## Maricopa Community Colleges

Field of Interest Matrix 2023-2024

| Emergency Medical Services and Fire Preparatory Academy | GW |
| :---: | :---: |
| Emergency Medical Technology | CG GC GW MC PC PV RS |
| Emergency Medical Technology Comprehensive | CG GC MC PC PV |
| Endoscopy | GW |
| Exercise Science: Health, Fitness, and Sports Performance | CG GC MC PV SC SM |
| Fast Track Practical Nursing | GC GW MC |
| Foundations of Community Health Work | SC |
| Foundations of Recreation Management | SC |
| Foundations of Sports Medicine | RS |
| Hair Stylist | GW |
| Health and Wellness Coaching | GC |
| Health Information Technology | PC |
| Health Information: Long Term Care Settings | PC |
| Health Science Education | GW |
| Health Services Management | GW |
| Healthcare Regulatory Compliance | GW |
| Healthcare Technology Systems | PV |
| Histologic Technology | PC |
| Hospital Central Service Technology | GW |
| Laboratory Assisting | PC |
| Law Enforcement Phlebotomy | GW |
| Law Enforcement Phlebotomy Refresher Course | GW |
| Magnetic Resonance Imaging | GW |
| Massage Therapy | GW PC |
| Medical Administrative Assisting | PC |
| Medical Assisting | GW PC |
| Medical Billing and Coding: Physician-Based | GW PC |
| Medical Coding: Hospital-Based | PC |
| Medical Interpreter - Spanish | GW |

## Maricopa Community Colleges

Field of Interest Matrix 2023-2024

| Medical Laboratory Science | PC |
| :---: | :---: |
| Musculoskeletal Sonography | GW |
| Nail Technician | GW |
| Nail Technician Instructor | GW |
| Nuclear Medicine Technology | GW |
| Nuclear Medicine Technology and Computed Tomography (BAS) | GW |
| Nurse Assisting | GC GW MC PV SC |
| Nursing | CG EM GC GW MC PC PV SC |
| Nursing Refresher | GW MC |
| Nutrition and Dietetic Technology | PV |
| Nutrition for Personal Trainers and Coaches | SC |
| Occupational Therapy Assistant | GW |
| Operating Room Nursing | GW |
| Ophthalmic Medical Administrative Assistant Apprenticeship | GW |
| Ophthalmic Medical Assistant | GW |
| Ophthalmic Medical Assistant Apprenticeship | GW |
| Paramedicine | GC MC PC PV |
| Personal Training | CG GC MC PV SC SM |
| Personal Training: Advanced | CG GC MC PV SC SM |
| Pharmacy Technician | GW |
| Pharmacy Technician Apprenticeship | GW |
| Pharmacy Technology | GW PV SC |
| Phlebotomy | GW |
| Physical Therapist Assisting | GW |
| Practical Nursing | CG EM GC GW MC PC PV SC |
| Radiologic Technology | GW |
| Recreation Management | SC |
| Respiratory Care | GW |

## Maricopa Community Colleges

## Field of Interest Matrix 2023-2024

| Sleep Medicine (Polysomnographic) Technology | GW |
| :--- | :--- |
| Spanish Interpreting for Healthcare Professionals | GW |
| Spanish Interpreting for Healthcare Professionals (6 hours/week) | GW |
| Speech Language Pathology Assistant | EM |
| Surgical Technology | GW |
| Sustainable Food Systems | RS |
| Sustainable Food Systems: Food Entrepreneur | RS |
| Sustainable Food Systems: Food Service | GC MC PC PV |
| Tactical Emergency Casualty Care | RS |
| Workforce Development: Introduction to Sustainable Food Systems | SC |
| Yoga Instruction |  |

## Maricopa Community Colleges

Field of Interest Matrix 2023-2024
Science, Technology, Engineering and Mathematics
PROGRAM
INSTITUTION

| Artificial Intelligence and Machine Learning | CG EM |
| :---: | :---: |
| Associate in Arts, Emphasis in Geography | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in Mathematics | CG EM GC GW MC PC PV RS SC SM |
| Associate in Arts, Emphasis in Sustainability and Environmental Studies | CG EM GC GW MC PC PV RS SC SM |
| Associate in Science, Emphasis in Astronomy | CG EM GC GW MC PC PV SC SM |
| Associate in Science, Emphasis in Biochemistry | CG EM GC GW MC PC PV RS SC SM |
| Associate in Science, Emphasis in Biological Sciences | CG EM GC GW MC PC PV RS SC SM |
| Associate in Science, Emphasis in Chemistry | CG EM GC GW MC PC PV RS SC SM |
| Associate in Science, Emphasis in Engineering | CG EM GC GW MC PC PV SC SM |
| Associate in Science, Emphasis in Geography - Meteorology | CG EM GC GW MC PC PV SC SM |
| Associate in Science, Emphasis in Geology | CG EM GC GW MC PC PV RS SC SM |
| Associate in Science, Emphasis in Physics | CG EM GC GW MC PC PV RS SC SM |
| Biomedical Equipment Technology | MC |
| Biotechnology and Molecular Biosciences | GC |
| Electronics Engineering Technology | MC |
| Electronics Technology | MC |
| Engineering Technology | CG EM GC PV SM |
| Environmental and Natural Resource Conservation | PC |
| Environmental and Natural Resource Stewardship | PC |

## Maricopa Community Colleges

## Field of Interest Matrix 2023-2024

| Equine Science | SC |
| :--- | :--- |
| Food Science and Technology I | SM |
| Food Science and Technology II | SM |
| Geographic Information Science | PC |
| Geospatial Technologies | MC |
| Landscape Aide | MC |
| Landscape Horticulture | MC |
| Landscape Specialist | CG GC MC PV RS SC |
| Mortuary Science | SM |
| Sustainability | MC |
| Sustainable Agriculture | MC |
| Veterinary Assisting |  |
| Veterinary Technology |  |

## Maricopa Community Colleges

Field of Interest Matrix 2023-2024

## Visual and Performing Arts

## PROGRAM

INSTITUTION

| Alteration Specialist | MC PC |
| :---: | :---: |
| Animation | GC MC PC |
| Animation and Time-Based Media | GC MC PC |
| Apparel Construction | MC PC |
| Associate in Arts, Fine Arts | CG EM GC GW MC PC PV SC SM |
| Associate in Arts, Fine Arts, Emphasis in Art | CG EM GC GW MC PC PV SC SM |
| Associate in Arts, Fine Arts, Emphasis in Dance | CG GC GW MC PC PV SC SM |
| Associate in Arts, Fine Arts, Emphasis in Music | CG EM GC GW MC PC PV SC SM |
| Associate in Arts, Fine Arts, Emphasis in Musical Theatre | CG EM GC GW MC PC PV SC SM |
| Associate in Arts, Fine Arts, Emphasis in Theatre | CG EM GC GW MC PC PV SC SM |
| Audio Production Technologies | GC MC PC PV |
| Beginning Piano Pedagogy | MC |
| Ceramics | MC |
| Commercial and Freelance Photography | GC PC |
| Costume Design and Production, Level I | MC PC |
| Costume Design and Production, Level II | PC |
| Dance Performance and Technology | SC |
| Digital Arts: Digital Photography | CG MC |
| Digital Media Arts | GC PC |
| Disc Jockey Techniques | MC |
| Disc Jockey Techniques I | MC |
| Disc Jockey Techniques II | MC |
| Documentary Film Production | GC |

## Maricopa Community Colleges

Field of Interest Matrix 2023-2024

| Drawing and Painting | MC |
| :--- | :--- |
| Editing | SC |
| Fashion Design | MC PC |
| Fashion Design: Entrepreneur | PC |
| Fashion Design: Level I | MC PC |
| Fashion Design: Level II | PC |
| Fashion Illustration | PC |
| Film and Media Production | GC |
| Graphic Design | MC PC |
| Illustration | CG MC PC |
| Illustration and Sequential Art | CG MC PC |
| Image Consultant | MC |
| Interior Design | PC SC |
| Interior Design Kitchen and Bath | PC SC |
| Interior Design Professional | SC |
| Interior Design Technology | PC SC |
| Interior Design Upholstery and Soft Goods Production | PC |
| Interior Merchandising and Home Staging | PC SC |
| Intermediate Piano Pedagogy | MC |
| Motion Picture Production | SC |
| Motion Picture, Television, and New Media Production | SC MC PC |
| Music Business I | GC |
| Music Business II | GC MC PC PC PV SM |
| Music Industries: Music Business | MC PV SM |
| Pattern Design, Level I | SC |
| Pattern Design, Level II | PC |
| Photography | Retail Sales Manager |
| Screenwriting | Sequential Art |
|  |  |
|  |  |

## Maricopa Community Colleges

## Field of Interest Matrix 2023-2024

| Stage Combat | PV |
| :--- | :--- |
| Technical Theatre | MC PC SC |
| Technical Theatre: Audio Technician | GC MC PC PV |
| Technical Theatre: Cosplay I | MC |
| Technical Theatre: Cosplay II | GC MC PC PV |
| Technical Theatre: Costuming | MC |
| Technical Theatre: Hair and Makeup | MC PC PV |
| Technical Theatre: Lighting | MC PC PV SC |
| Technical Theatre: Properties | MC PC PV |
| Technical Theatre: Puppetry | GC MC PC PV SC |
| Technical Theatre: Set/Scenic Construction | MC |
| Technical Theatre: Stage Crew Technician | MC PC |
| Textile and Apparel: Fashion Stylist | SC |
| Time-Based Media | SC |
| Visual Communication |  |
| Visual Communication: Creative Branding | Visual Communication: Design |
| Visual Communication: Digital Process Management |  |

## Administrative Regulations (Section 2 - Students)

## 2.1

## General Regulation

1. General Statement

## Compliance with Policies, Rules and Regulations

Every student is expected to know and comply with all current published policies, rules and regulations as stated in the college catalog, class schedule, and/or student handbook. Documents are available on each college's website. Policies, courses, programs, fees and requirements may be suspended, deleted, restricted, supplemented or changed through action of the Governing Board of the Maricopa Community Colleges.
The Maricopa Community Colleges reserve the right to change, without notice, any materials, information, curriculum, requirements and regulations.
Note: The regulations that comprise the student section contain language that appears in various sources such as the Catalog Common Pages and the Student Handbook. All areas became Administrative Regulations with the 1996 adoption of the Governance Model. Changes are made annually either through the Administrative Regulations approval process, or by Board approval for those items that fall under its statutory duty, such as Tuition and Fees. In an effort to prevent duplication, topics in this section may be incorporated by reference, as they are featured in other areas of the manual and are noted accordingly.
The Maricopa County Community College District Vision, Mission and Values that are featured in the Common Pages are a part of approved Governing Board policy and are located in the policy section of the manual. As such, the following statement related to Outcomes Assessment that appears in the Common Pages is presented here as a general statement.
2. Outcomes Assessment

The mission of the Maricopa Community Colleges is "to create and continuously improve affordable, accessible, and effective learning environments for the lifelong educational needs of the diverse communities we serve." In order to evaluate how successfully the Maricopa County Community College District accomplishes this mission, student outcomes will be assessed as part of the continuous improvement process.

Students may be asked to participate in a variety of assessment activities at each college. Assessment results will be used to improve educational programs, services and student learning.

## Admission/Registration/Enrollment (AR 2.2)

2.2.1

## Admission Policy, Classifications and Procedures

Persons meeting the admissions criteria may attend any Maricopa Community College of their choice. Falsification of any admission materials or official college records may be cause for denial or cancellation of admission. Exceptions to the admissions policies may be requested through the Admissions and Standards Committee. Admission is determined in accordance with state law (ARS §§15-1805.01 and 151821) and regulations of the Maricopa Community Colleges Governing Board.

## Admission Classifications

## 1. Admission of Regular Students

Admission to the community college in Arizona may be granted to any person who meets at least one of the following criteria:
A. Is a graduate of a high school, which is accredited by a regional accrediting association as defined by the United States Office of Education or approved by a State Department of Education or other appropriate state educational agency.
B. Has a high school certificate of equivalency.
C. Is at least 18 years of age and demonstrates evidence of potential success in the community college.
D. Is a transfer student in good standing from another college or university.

## 2. Admission of Students Under 18 Years of Age

A. A community college in this state shall grant admission to any student who is under eighteen years of age and who achieves at least one of the following:
i. A composite score of 720 or more on the Preliminary Scholastic Aptitude Test (PSAT).
ii. A composite score of 720 or more on the Scholastic Aptitude Test (SAT).
iii. A composite score of twelve or more on the American College Test (ACT).
iv. A passing score on the relevant portions of the statewide assessment.
v. The completion of a college placement method designated by the community college district that indicates the student is at the appropriate college level for the course.
vi. Is a graduate of a private or public high school or has a high school certificate of equivalency.
B. A community college may limit the number of semester hours in which the student may enroll to not more than six (6) credit hours.
C. Home schooled students are exempt from this sub-section.
D. Students who enroll in vocational courses may be admitted on an individual basis with the approval of college officials if the students meets the established requirements of the courses for which the student enrolls and the college official determines that the student's admission is in the best interest of the student.

## 3. Specialized Vocational / Training Program

Students who enroll in vocational courses may be admitted on an individual basis with the approval of college officials if the student meets the established requirements of the courses for which the student enrolls and the college officials determine that the student's admission is in the best interest of the student.
4. Western Undergraduate Exchange Program

The Western Undergraduate Exchange (WUE) program is a student exchange program coordinated by the Western Interstate Commission for Higher Education (WICHE) and administered by the Arizona Board of Regents. Through WUE, students who reside in western states (Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming) and the Commonwealth of the Northern Marianas Islands (CNIMI) and who meet the eligibility requirements, pay 150 percent of the regular resident tuition plus fees. Students must mark prominently on the Student Information Form that they seek admission as WUE students. Students may not apply as out-of-state students and expect to receive the WUE tuition rate after admitted. Once admitted as WUE students, students may not petition for in-state residency. Further information may be obtained from the Admissions and Records Office/Office of Student Enrollment Services.
5. Admission of F-1 Non-immigrant Students

Prospective students should contact the Admissions and Records Office/Office of Student Enrollment Services or designated office for the international student application form(s) or apply online at https://www.maricopa.edu/become-student/international-admissions. When completed, the form(s) should be submitted to the Admissions and Records Office/Office of Student Enrollment Services or the International Education office with all requested supporting documents. After the file has been reviewed, a notice will be sent to the applicant indicating either acceptance or denial of admission.

To be guaranteed consideration for admission, all application materials must be received by July 1 for the fall semester and November 1 for the spring semester.

Prospective students seeking admission based on F-1 non-immigrant status must provide proof of secondary school completion with documentation comparable to a United States high school diploma or higher degree. It is recommended that F -1 non-immigrant students have graduated in the upper $50 \%$ of their secondary school (high school or equivalent) in order to ensure success in academic classes at this college. Applicants for admission to the college must have high school and college (if applicable) transcripts sent directly from the high school or college to the Admissions and Records Office/Office of Student Enrollment Services or designated office. In addition, it is the applicant's responsibility to have all transcripts translated into English and evaluated by a foreign credential evaluation service if necessary.

## A. Admission to Academic Programs

Applicants who wish to enroll in an academic program at the college must present evidence of English language proficiency. If the Test of English as a Foreign Language (TOEFL) is used to satisfy this requirement, the applicant must attain a score of at least 500 (on the paper-based TOEFL) or 61 (on the internet-based TOEFL, known as the iBT). Some colleges may have a higher minimum score requirement for admission to specific academic programs. Students should contact their respective college for its English language proficiency requirements. If the International Language Testing System (IELTS) is used to satisfy this requirement, an IELTS overall Band Score of 5.5 or better is required, and a minimum IELTS individual Band Score of 5.0 on each module is recommended. The Dean or Director of the Admissions and Records Office/Office of Student Enrollment Services or designee of the college may accept other proof of English language proficiency for admission purposes; including, but not limited to, the ACCUPLACER, ASSET, COMPASS and CELSA tests.

## B. Admission to an Intensive English Program

Applicants for admission to an Intensive English Program are advised to check with individual colleges for their respective admission requirements. Applicants must provide evidence of at least an intermediate command of English by way of one or more of the following criteria:
i. At least six years of English language instruction as shown by the applicant's school transcript(s);
ii. A minimum TOEFL score of 400 (on the paper-based TOEFL) or 23 (on the internet-based test);
iii. An original letter of recommendation from a teacher, school principal or headmaster/ headmistress, or the director of an English language institute attesting to the applicant's proficiency at the intermediate level;
iv. Other credentials, test scores, interview results, or evidence accepted by the coordinator of an intensive English program or the college's responsible designee. Students admitted to an Intensive English Program will not be allowed to enroll in courses outside those officially designated as part of the program unless and until they have met all of the prerequisites or other course requirements.
v. Foreign students under certain types of visas may need special permission to enroll and should contact the appropriate college official.

## C. Financial Support

Evidence of financial support will be required prior to issuance of the I20 form. The colleges have no scholarship or financial aid provisions for foreign students; therefore, students must be fully prepared to meet the necessary financial obligations for the full time they will be in the United States. The colleges estimate a student's average expenses for 10 months to be:

## Financial Support

Tuition and Fees $\$ 9,115$ (1)
Living Expenses \$17,200 (2)
Books \$1,104 (3)
Health Insurance \$2,800 (4)
Total $\$ 30,219(5)$

## D. Dependent Financial Guarantee

Evidence of financial support for dependents of F-1 and M-1 students (spouse and dependent children) is also required: $\$ 5,000$ for the first dependent and $\$ 2,500$ for each additional dependent.

## E. Health Insurance

All F-1 and M-1 students who have an I-20 issued by one of the Maricopa Community Colleges are required to purchase the Maricopa Community Colleges' international student health insurance plan. Health insurance coverage for dependents of $\mathrm{F}-1$ and $\mathrm{M}-1$ students is highly recommended. The Maricopa Community Colleges contracts with an insurance provider annually to offer a health insurance plan for F-1 and M-1 students. For more information contact the college Admissions and Records Office/Office of Student Enrollment Services or designated international student office.

## Footnotes:

(1) Based on 2023-2024 tuition and fee schedule.
(2) Based on estimated living expenses for two (2) semesters (10 months).
(3) Based on average new and used textbook prices and rental rates. Assumes books are sold at the end of the semester.
(4) Based on the estimated 2023-2024 insurance premium for the mandatory Maricopa Community Colleges' International Student Health Plan.
(5) Applicants must provide evidence of this minimum amount of financial support before an I-20 is issued.

## AMENDED through the Administrative Regulation Process, June 12, 2023

### 2.2.2

## Admission Information

Students must file a Student Information Form, online or in-person, with the Admissions and Records Office/Office of Student Enrollment Services at the college of attendance. There is no charge for this service.

1. Student Classifications

Some financial aid programs have specific criteria based on the student's classification (grade level). A student's classification does not necessarily correspond to the number of semesters or credits required to complete all degree requirements, as some degree programs require more than the standard 60 for associate's or 120 for bachelor's degrees. Classification includes MCCCD and accepted transfer credit.

| Number Of <br> Credits | Classification | Applies <br> To |
| :--- | :--- | :--- |
| $0-29$ | Freshman | Certificates <br> Associate's Degrees <br> Bachelor's Degrees |
| $30-59$ | Sophomore | Certificates <br> Associate's Degrees <br> Bachelor's Degrees |
| $60+$ | Sophomore | And still in pursuit of a <br> certificate <br> Or <br> Associate's Degree |
| $60-89$ | Junior | Bachelor's Degrees |
| 90 Or More | Senior | Bachelor's Degrees |

## 2. Student Identification Number

Disclosure of the social security number is voluntary (ARS §15-1823).
However, students must use social security numbers for reporting information pertaining to potential educational tax credits and for processing federal financial aid applications and Veterans Administration benefits.
3. Residency for Tuition Purposes (See Appendix S-1)

All students are classified for tuition purposes under one of the following residency classifications:
. Maricopa County resident
A. Out-of-County resident
B. Out-of-State resident (including F-1 non-immigrant students and students on other non-immigrant visas)

## 4. Residency Determination

Residency for tuition purposes is determined in accordance with state law (ARS $\S \S 15-1801$ et seq. and ARS $\S \S 15-1803$ ) and regulations of the Maricopa Community Colleges Governing Board. All of the Maricopa Community Colleges are subject to the above statutes and regulations. Students who have
questions about their residency should contact the Admissions and Records Office/Office of Student Enrollment Services for clarification.

## Implementation

i. An applicant must be eligible to attend post-secondary education in the United States prior to being eligible to register for classes and pay fees.
ii. Domicile status must be established before the student registers and pays fees. It is the student's responsibility to register under the correct domicile status.
iii. Enforcement of domicile requirements shall be the responsibility of the Chancellor of the Maricopa Community Colleges. The Chancellor has charged the Director of Admissions and Records or other designee at each college to make the initial domicile classification. In determining a student's classification, the college may consider all evidence, written or oral, presented by the student and any other information received from any source which is relevant to determining classification. The college may request written sworn statements or sworn testimony of the student.
iv. A request for review of the initial classification may be made to a district review committee. The request must be in writing, signed by the student and accompanied by a sworn statement of all facts relevant to the matter. The request must be filed with the admissions officer of the college within ten (10) days of receipt of notification of classification as a non-resident. Failure to properly file a request for review within the prescribed time limit constitutes a waiver of review for the current enrollment period. The decision of the review committee shall be final.

## A. Definitions

i. "Armed Forces of the United States" means the Army, the Navy, the Air Force, the Marine Corps, the Coast Guard, the commissioned corps of the United States Public Health Services, the National Oceanographic and Atmospheric Administration, the National Guard, or any military reserve unit of any branch of the Armed Forces of the United States.
ii. "Continuous attendance" means enrollment at one of Maricopa Community Colleges as a full-time or part-time student for a normal academic year since the beginning of the period for which continuous attendance is claimed. Students need not attend summer sessions or other such intersession beyond the normal academic year in order to maintain continuous attendance.
iii. "Maricopa County resident" means an individual lives in Maricopa County and has lived in the state of Arizona for at least one year prior (365 days) to the first day of the semester (as published in the approved MCCCD academic calendar posted online at Academic Calendars) and who is a United States citizen or in a lawful status. In-state residency must be established prior to county residency for those moving from other states. Refer to Section C for guidelines.
iv. "Domicile" means a person's true, fixed, and permanent home and place of habitation. It is the place where he or she intends to remain and to which he or she expects to return when he or she leaves without intending to establish a new domicile elsewhere. Visa status must confer the ability to establish domicile in the United States in order to be classified as an in-state student
v. "Emancipated person" means a person who is neither under a legal duty of service to his parent nor entitled to the support of such parent under the laws of this state.
vi. "Full-time student" means one who registers for at least twelve (12) credit hours per semester.
vii. "Part-time student" means one who registers for fewer than twelve (12) credit hours per semester.
viii. "Parent" means a person's father, or mother, or if one parent has custody, that parent, or if there is no surviving parent or the whereabouts of the parents are unknown, then a guardian of an unemancipated person if there are not circumstances indicating that such guardianship was created primarily for the purpose of conferring the status of an in-state student on such unemancipated person.

## C. Criteria for Determining Residency

i. In-State Student Status

1. Except as otherwise provided in this article, no person having a domicile elsewhere than in this state is eligible for classification as an in-state student for tuition purposes. (Applicants applying for in-state tuition status may be required to provide supporting documentation for identification and residency classification.)
2. A person is not entitled to classification as an in-state student until the person is domiciled in this state for one year preceding the official starting day of the semester, except that a person whose domicile is in this state is
entitled to classification as a Maricopa County resident if the person meets one of the following requirements:
a. The person's parent's domicile is in this state and the parent is allowed to claim the person as an exemption for state and federal tax purposes.
b. The person is an employee of an employer which transferred the person to this state for employment purposes or the person is the spouse of such an employee.
c. The person is an employee of a school District in this state and is under contract to teach on a full-time basis, or is employed as a full-time non-certified classroom aide, at a school within that school District. For purposes of this paragraph, the person is eligible for classification as an in-state student only for courses necessary to complete the requirements for certification by the state board of education to teach in a school District in this state. No member of the person's family is eligible for classification as an in-state student if the person is eligible for classification as an in-state student pursuant to this paragraph, unless the family member is otherwise eligible for classification as an in-state student pursuant to this section. Eligibility for in-state tuition is subject to verification of intent to domicile in this state. Determination of residency is made by the admissions and records office/office of enrollment services.
d. The person's spouse (spouse must be in an eligible status to qualify for in-state residency) has established domicile in this state for at least one year and has demonstrated intent and financial independence and is entitled to claim the student as an exemption for state and federal tax purposes or the person's spouse was temporarily out of state for educational purposes, but maintained a domicile in this state. If the person is a non-citizen, the person must be in an eligible visa status pursuant to federal law to classify as an in-state student for tuition purposes.
3. The domicile of an unemancipated person is that of such person's parent.
4. An unemancipated person who remains in this state when such person's parent, who had been domiciled in this state, removes from this state is entitled to classification as an instate student until attainment of the degree for which currently enrolled, as long as such person maintains continuous attendance.
5. A person who is a member of the Armed Forces of the United States and who is stationed in this state pursuant to military orders or who is the spouse or a dependent child of a person who is a member of the armed forces of the United States and who is stationed in this state pursuant to military orders is entitled to classification as an in-state student. The student does not lose in-state student classification while in continuous attendance toward the degree for which he or she is currently enrolled.
6. A person who is a member of the armed forces of the United States or the spouse or a dependent of a member of the armed forces of the United States is entitled to classification as an in-state student if the member of the armed forces has claimed this state as the person's state of home record for at least twelve consecutive months before the member of the armed forces, spouse or dependent enrolls in a university under the jurisdiction of the Arizona Board of Regents or a community college under jurisdiction of a community college district governing board. For purposes of this subsection, the requirement that a person be domiciled in this state for one year before enrollment to qualify for in-state student classification does not apply.
7. Immediate classification as an in-state student shall be granted to a veteran who meets the provisions of Arizona statute HB 2091, paragraph G, which reads:
A person holding an honorable discharge from the uniformed services of the United States from either active duty or reserve or national guard status, or who has retired from active duty or reserve or national guard status, shall be granted immediate classification as an in state student and, while continuously enrolled, does not lose in state student classification if the person has demonstrated
objective evidence of intent to be a resident of Arizona that, for the purposes of this section, includes at least one of the following:
8. Registration to vote in this state.
9. An Arizona driver license.
10. Arizona motor vehicle registration.
11. Employment history in Arizona.
12. Transfer of major banking services to Arizona.
13. Change of permanent address on all pertinent records.
14. Other materials of whatever kind or source relevant to domicile or residency status.
15. A student using Chapter 30,33 , or 35 benefits who does not otherwise qualify under item 7 above (paragraph G of PL 2091), or a veteran's dependent or spouse who is using transferred Post-9/11 GI Bill® (Chapter 33) benefits or the Marine Gunnery Sergeant John David Fry Scholarship, will be eligible for immediate classification as an in-state student if they provide the institution a current certificate of eligibility or ebenefits statement showing the student is eligible for chapter 30, 33, or 35 Veteran Affairs (VA), education benefits and documentation showing the student is residing within the state.
Students are required to submit the following:
16. Certificate of eligibility letter or ebenefits statement from the Veteran Affairs (VA) awarding Chapter 30, 33, or 35 benefits or the Fry Scholarship, or the Dept. of Defense document approving the transfer of CH. 33 benefits
17. Students must also provide at least one of the following to show presence within the state:
a. Registration to vote in this state.
b. An Arizona driver license.
c. Arizona motor vehicle registration.
d. Employment history in Arizona.
e. Transfer of major banking services in Arizona.
f. Change of permanent address on all pertinent records.
g. Other materials of whatever kind or source relevant to domicile or residency status.

GI Bill ${ }^{\circledR}$ is a registered trademark of the
U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at https://www.benefits.va.gov/gibill.
3. Per Arizona state law, a person who is honorably discharged from the armed forces of the United States on either Active duty or Reserve or National Guard status, or who has retired from Active duty or Reserve or National Guard Status, shall be granted immediate classification as an in-state student on honorable discharge from the Armed forces and, while in continuous attendance toward the degree for which currently enrolled, does not lose in-state student classification if the person has met the following requirements:
a. Registered to vote in this state.
b. Demonstrated objective evidence of intent to be a resident of Arizona which, for the purposes of this section, include at least one of the following:

1. An Arizona driver license
2. Arizona motor vehicle registration
3. Employment history in Arizona
4. Transfer of major banking services to Arizona
5. Change of permanent address on all pertinent records
6. Other materials of whatever kind or source relevant to domicile or residency status
7. A student using any VA educational benefits who does not otherwise qualify under items above shall be granted immediate classification as an in-state student, and while continuously enrolled does not lose in-state student classification if the person has demonstrated objective evidence of intent to be a resident of Arizona that for the purposes of this section, includes at least one of the following:
8. Registration to vote in this state
9. An Arizona driver license
10. Arizona motor vehicle registration
11. Employment history in Arizona
12. Transfer of major banking services to Arizona.
13. Change of permanent address on all pertinent records
14. Other material of whatever kind or source relevant to domicile or residency status.
15. A person who is a member of an Indian tribe recognized by the United States Department of the Interior whose reservation land lies in the state and extends into another state and who is a resident of the reservation is entitled to classification as an in-state student.
ii. Alien In-State Student Status
16. An alien is entitled to classification as an in-state refugee student if such person has been granted refugee status in accordance with all applicable laws of the United States and has met all other requirements for domicile.
17. Notwithstanding any other law, a student, other than a nonimmigrant alien as described in 8 United States code section $1101(\mathrm{~A})(15)$, who meets both of the following requirements is eligible for in- state tuition at any community college as defined in ARS 15-1401:
Attended any public or private high school option or homeschool equivalent pursuant to ARS 15-802 while physically present in this state for at least two years. Graduated from any public or private high school option or homeschool equivalent pursuant to ARS 15-802 while physically present in this state or obtained a high school equivalency diploma in this state.
18. Persons without lawful immigration status are eligible for in-state tuition pursuant to subsection 2 of this section
19. A student will be assessed out-of-state tuition until such time that documentation of status is received in the Office of Admissions and Records/Enrollment Services and (eligibility for) residency is confirmed. Documentation must be provided prior to the end of the term in which residency classification is being requested. Documentation received after the end of term will be used for residency determination in subsequent terms.
20. In establishing domicile, the alien must not hold a visa that prohibits establishing domicile in the United States and this state. After meeting other domicile requirements, students
holding valid, unexpired visas in the following categories may be classified as in-state students (See Appendix S-1A).
21. A student must verify U.S. citizenship, permanent residency, or other lawful immigration status. Lawful immigration status means they have legal authority to be in the United States and also have the authority to go to school while in the United States.
22. Students who hold a current or expired visa and have applied for a change of status will retain their immigration status based on their prior visa status and not the status or visa for which they are applying. Students will need to submit a copy of the new visa card with the updated status. The timeline for establishing domicile begins with the issue date on the current visa that allows for establishment of residency.
23. Please note: Two requirements must be met to qualify for instate tuition.
24. A student must meet the domicile residency requirement of residing in the State of Arizona for one year preceding the official start of the semester.
25. The student must have an immigration status that allows for the establishment of residency for one (1) year.
26. (Applicants applying for in- state tuition status will be required to provide supporting documentation for identification and residency classification) all applicants for in-state tuition may be required to provide a combination of the following documents:
27. An Arizona Driver's License issued after 1996 or an Arizona Non-operating Identification License or an Arizona Instruction Permit.
28. A birth certificate or delayed birth certificate issued in any state, territory, or possession of the United States (A hospital record/certificate is not acceptable. A certified abstract of birth with the official state seal and/or watermark is acceptable).
29. A United States Certificate of Birth Abroad.
30. A United States Passport.
31. A Foreign Passport with a United States Visa.
32. An 1-94 Form with a Photograph.
33. An appropriately designated United States Citizenship and Immigration Services Employment Authorization (Work Permit) or Refugee Travel Document [as listed on the Employee Authorization Document Chart]. (Additional documents may be required with an employee authorization card.)
34. A United States Permanent Resident Card.
35. A United States Certificate of Naturalization.
36. A United States Certification of Citizenship.
20.A Tribal Certificate of Indian Blood.
37. A Tribal or Bureau of Indian Affairs Affidavit of Birth.

* Tribal members*, the Elderly and "Persons with disabilities or incapacity of the Mind or Body," may submit certain types of documentation under section 1903 of the federal Social Security Act (42 United States Code 1396B, As Amended By Section 6036 of the Federal Deficit Reduction Act of 2005)**
*A Document issued by a federally recognized Indian Tribe Evidencing Membership or Enrollment in, or affiliation with, such tribe.
iii. Presumptions Relating to Student Status

Unless there is evidence to the contrary, the registering authority of the community college or university at which a student is registering will presume that:

1. No emancipated person has established a domicile in this state while attending any educational institution in this state as a full-time student, as such status is defined by the community college district governing board or the Arizona Board of Regents, in the absence of a clear demonstration to the contrary.
2. Once established, a domicile is not lost by mere absence unaccompanied by intention to establish a new domicile.
3. A person who has been domiciled in this state immediately before becoming a member of the Armed Forces of the United States shall not lose in-state status by reason of such person's presence in any other state or country while a member of the Armed Forces of the United States.
iv. Proof of Residency

When a student's residency is questioned, the following proof will be required.

1. Establishing Domicile
a. An affidavit signed by the student must be filed with the person responsible for verifying residency.
b. A combination of the following may be used in determining a student's domicile in Arizona:
2. Arizona income tax return
3. Arizona Voter registration
4. Arizona Motor Vehicle registration
5. Arizona Driver's license
6. Employment history in Arizona
7. Place of graduation from high school
8. Source of financial support
9. Dependency as indicated on federal income tax return
10. Ownership of real property
11. Notarized statement of landlord and/or employer
12. Transfer of major banking services to Arizona
13. Change of permanent address on all pertinent records
14. Arizona Department of Children Services documents related to foster care placement
15. Other relevant information
16. County Residency

A combination of the following may be used to determine a student's county residency:

1. Notarized statements of landlord and/or employer
2. Source of financial support
3. Place of graduation from high school
4. Ownership of real property
5. Bank accounts
6. Arizona income tax return
7. Dependency as indicated on a Federal income tax return
8. Other relevant information
D. Concurrent Enrollment in Arizona Public Institutions of Higher Education (ARS §15-1807)(See Appendix S-3)
Under Arizona Revised Statutes $\S 15-1807$, it is unlawful for any non-
resident student to register concurrently in two or more public institutions of higher education in this state including any university, college or community college for a combined student credit hour enrollment of more than six (6) credit hours without payment of nonresident tuition at one of such institutions. Any non-resident student desiring to enroll concurrently in two or more public institutions of higher education in this state including any university or community college for a combined total of more than six (6) credit hours who is not subject to non-resident tuition at any of such institutions shall pay the non-resident tuition at the institution of his choice in an amount equivalent to non-resident tuition at such institution for the combined total of credit hours for which the non-resident student is concurrently enrolled.

## AMENDED through the Administrative Regulation Process, June 12, 2023

### 2.2.3

## Other Admission Information

1. Veterans

By Arizona statute, any failing grades from any Arizona university or community college that were received prior to military service will not be used to determine admission to the community college for the honorably discharged veterans with two years' service in the Armed Forces of the United States. Students admitted or readmitted to the community college under this statute are subject to progression, retention, graduation and other academic regulations and standards. (See Withdrawal - Appendix S-7)
2. Ability to Benefit
A. Federal guidelines require that students who are applying for financial aid demonstrate the ability to benefit. Under federal law, a student who enrolls after June 30, 2012, must be a high school graduate, have a GED certificate, or have completed a secondary school education in a home school setting that is treated as a home school or private school under state law, be admitted as a regular student, and be pursuing an eligible degree or certificate to qualify for federal financial assistance under Title IV of the Higher Education Act.
B. For student enrolled prior to July 1, 2012, an evaluation during the admission process resulted in the student being admitted to the college with the status of Regular, Regular with Provisional

## Requirements or Special.

i. "Regular" status, for the purpose of 2.2.3.2, is granted to an individual admitted to the college who is a high school graduate,
has a GED certificate, or has completed a secondary school education in a home school setting that is treated as a home school or private school under state law. A student without a high school diploma or GED certification and beyond the age of compulsory high school attendance may be a regular status student if the student has been assessed to benefit from college instruction by receiving qualifying scores on approved assessment instruments. All regular status students must be pursuing a degree/certificate in an eligible program.
ii. "Regular with Provisional Requirements" status, for the purpose of 2.2.3.2, is granted to a student admitted to the college who is not a high school graduate, does not have a GED certificate, is beyond the age of compulsory high school attendance, or has completed a secondary school education in a home school setting that is treated as a home school or private school under state law, but has been assessed to benefit from college instruction and is pursuing a degree/certificate in an eligible program.
iii. "Special" status, for the purpose of 2.2.3.2, is granted to a student admitted to the college for concurrent enrollment or pursuing one or more courses of special interest and who meets all the requirements for admission.

## 3. Transcripts

The Maricopa Community Colleges reserve the right to require an official transcript for admission to specific programs, for verification of course requisites and for determination of academic standing. The official transcript must be sent directly from the source institution to the college Admissions and Records Office/Office of Student Enrollment Services. The official transcripts may be sent via a secured website. Please contact the Admissions office of the Maricopa College you plan to attend to verify which secure websites may be valid. It is the student's responsibility to ensure that official transcripts have been received and are complete.

Students entering as high school graduates may be required to submit high school transcripts. Please contact the Admissions office of the Maricopa College you plan to attend for more information on preparing a home-schooled official transcript. Students entering as GED recipients may be required to present a copy of the high school equivalency certificate or official report of qualifying GED scores.
4. Educational Assessment

All students are encouraged to undergo an educational assessment to determine
course placement. Prospective students who do not possess a high school diploma or GED equivalence certificate are required to complete an educational assessment to determine their ability to benefit from college instruction. See Student Course Placement Process (AR 2.2.7)
5. High Pressure Recruitment Tactics

The Maricopa County Community College District prohibits its employees from engaging in high-pressure recruitment tactics or in providing to any person or entity engaged in student recruitment, admission activity, or in making decisions regarding the award of Title IV, HEA funds, any commissions, bonuses, or other incentive payments based, in any part, directly, or indirectly upon successfully securing enrollments or the awarding of financial aid. (34 CFR 668.14(a)(22)(i)).

### 2.2.4

## Transfer Credit and Prior Learning Assessment Policy

## TRANSFER CREDIT

A student enrolling at one of the Maricopa Community Colleges after having attended other post-secondary institutions can have coursework evaluated for transfer credit. To be eligible for evaluation, coursework must appear on official transcripts from the source institutions. The official transcripts must be mailed or sent through an approved electronic transfer method directly from the source institutions to the Admissions and Records/Enrollment Services Office of the receiving institutions. Hand-carried and emailed transcripts cannot be accepted for an official evaluation. Students should allow approximately 10 days before confirming with your Maricopa Community College that the transcript(s) was received. The Admissions and Records/Enrollment Services Office at the receiving institutions will complete course-by-course evaluations for all submitted transcripts upon student request. The award of transfer credit shall not express or imply that all transfer credit will be fully accepted or applied toward all Maricopa degree and certificate requirements.

The Maricopa Community Colleges will evaluate coursework from institutions listed in the database of institutions and programs accredited by recognized U.S. accrediting organizations at the time the coursework was taken. To be "recognized" means that the accreditors in the database have been reviewed by the Council For Higher Education Accreditation (CHEA) or by the U.S. Department of Education (USDE) or both and meet the quality standards of the respective organizations.

College-level courses completed outside the United States and recorded on official transcripts will be evaluated for transfer credit, provided that the institution where the courses were taken is accredited by the Ministry of Education in that country. It is the
student's responsibility to submit all foreign and international transcripts to an approved international credential evaluation service to be translated into English (when applicable), evaluated on a course-by-course-basis, and sent directly to the receiving college(S). Contact your College Admissions and Records/Enrollment Services Office to obtain a list of recommended evaluation services.

## CONDITIONS OF TRANSFER CREDIT:

- Credits transferred from outside of MCCCD graded on a plus/minus grading scale are converted based on the grading scale of the transferring institution. Only courses with a grade of "C" ( 2.0 on a 4.0 scale) or better are transferable. Course credit below 100 level, earned at an MCCCD institution prior to August 2020 or at a sending institution, cannot be used to calculate grade level.
- Developmental coursework is accepted for the purpose of fulfilling course prerequisites. However, the credit does not apply toward a degree or certificate, and it does not transfer to another postsecondary institution. It does, however, get added to the transfer credit report as part of the evaluation.
- Courses with different credit systems (quarter hours, units) are converted to semester hours of credit. The semester conversion of quarter credits is at a rate of .67 semester credit hours for each quarter hour.
- The age of credit may be considered in applying credit toward degrees and certificate programs.
- Courses accepted as equivalent do not necessarily apply toward the requirements for the student's declared degree or certificate at MCCCD.


## REVERSE TRANSFER OF CREDIT

In an effort to assist former Maricopa students who have transferred to a university, the Maricopa Community Colleges offer reverse transfer of credit with participating universities. Former Maricopa students may use this opportunity to fulfill previously incomplete coursework requirements. Interested students at participating universities must meet university criteria to qualify for free transcript exchange when available. Participation in reverse transfer of credit does not guarantee coursework applicability or degree or certificate eligibility. Students participating in reverse transfer of credit must meet all curriculum and college requirements.

## PRIOR LEARNING ASSESSMENT (PLA)

The Maricopa Community Colleges are committed to the idea that people deserve credit for verifiable college-level learning, no matter how it was acquired. Many people have developed learning outside of the traditional classroom. This evaluation of credit is referred to as Prior Learning Assessment, or PLA. Prior learning can be identified and assessed in a variety of ways to determine if college credit should be awarded. Credit is awarded only to certificate or degree seeking students who:

1. plan to enroll, and
2. are admitted and matriculated within the college awarding the credit.

Exceptions can be made for contractual agreements. One such exception includes evaluation of journeymen cards for apprentices from current or former apprenticeship partners, or other registered apprenticeship sponsors and intermediaries. Credits awarded for journeymen have a specific PLA evaluation process and separate fee policies.

PLA credit may be applied toward a degree program, certificate, general education requirements, concentration, and general electives that count toward the student's elected pathway. Some restrictions may apply depending on the specific program of study. PLA credit may satisfy prerequisite requirements using the same policy that applies to other course equivalencies.

Associate degree seeking students may be awarded no more than 45 credit hours through prior learning assessment, unless required by a specific program of study within the Maricopa Community Colleges. Up to 60 credits earned through PLA can be applied to a Bachelor's degree. Evaluated credit from post-secondary institutions and military credit as indicated on Joint Service transcripts, Community College of the Air Force, and Air University are not included in this credit limitation. Evaluated credit and credit awarded for prior learning does not count as hours in residence for graduation requirements. Please refer to 2.3.9 General Graduation Requirements. Exceptions to this institutional policy must have prior written approval of the program director, department/division chair, or designee and documentation of rationale and approval included as part of the admission process and/or application to graduate. No more than 20 credit hours may be applied to the Arizona General Education Curriculum (AGEC). Please direct questions about Prior Learning Assessment at the Maricopa Community Colleges to the Admissions and Records/Enrollment Services Office.

## PRIOR LEARNING ASSESSMENT FEE SCHEDULE

Transfer credit from nationally recognized institutions, international coursework that has been officially evaluated by a foreign evaluator service (such as Educational Credential Evaluators), standardized college-level exams (such as CLEP, AP, IB, DSST, CIE), GED exams, Military Transcripts, ACE (American Council On Education) transcripts, no fees assessed credit received through ORGANIZATIONS AND companies that offer nationally recognized credit evaluated by ACE, NCCRS, etc.
(Straighterline, NOCTI, Study.Com, etc.), industry recognized credentials, industry/corporate training, Skill Center and clock hour transcripts.

## Departmental Challenge Exam

\$40 Administrative
fee per exam request

Evaluation of journeymen cards for credit requires a specific evaluation process and a different fee schedule.

## CREDIT BY EXAM (COLLEGE-LEVEL EQUIVALENCY EXAMINATIONS)

ACE has published credit recommendations for a number of national standardized examinations such as the ones listed below in the Guide To Educational Credit By Examination. The Maricopa Community Colleges use these recommendations as guidelines to award credit for equivalent coursework as well as elective credit. The number of credits listed in the ACE guide are recommendations only. A college is not required to grant a student the number of credits recommended.

Scores must be sent directly to the Admissions and Records/Enrollment Services Office from the specific testing companies before credit is awarded; equivalencies are subject to review and change. Credit received through Prior Learning Assessment is transferable within the Maricopa Community Colleges but is not necessarily transferable to other colleges and universities. Therefore, students are strongly advised to research the Credit for Prior Learning Assessment policies at any college or university outside of the Maricopa Community Colleges to which they plan to transfer. Credit By Exam is awarded based on equivalencies in effect at the time of evaluation. Changes to exams and scores are determined by the respective Maricopa Instructional Councils (ICS) and/or Statewide Articulation Task Forces (ATFS).

## Maricopa recognizes the following examinations:

- Advanced Placement (AP)
- American College Testing Proficiency Examination Program (ACT-PEP)
- Cambridge International Exams (CIE), A and AS LEVEL
- College-Level Examination Program (CLEP)
- Departmental Exams (also known as "CHALLENGE EXAMS")
- Defense Activity For Non-Traditional Education Support [DANTES] Subject Standardized Tests (DSST)
- GED, College Ready + Scores
- International Baccalaureate (IB) Diploma/Certificate
- PEARSON VUE Exams

Fees for standardized exams are the responsibility of the student.

## Current list of exams and scores

## ADVANCED PLACEMENT (AP) CREDIT

Students who have taken an advanced placement course of the College Entrance Examination Board (CEEB) in their secondary school and who have taken an Advanced Placement Examination of the CEEB may receive course credit. Scores must be received directly from CEEB to Admissions and Records/Enrollment Services before credit is awarded.

## AMERICAN COLLEGE TESTING PROFICIENCY EXAMINATION PROGRAM

The Maricopa Community Colleges may award credit for the American College Testing Proficiency Examination Program (ACT-PEP) based on the scores earned to Admissions and Records/Enrollment Services.

## CAMBRIDGE INTERNATIONAL EXAMINATIONS (CIE) A AND AS LEVEL

Students who have taken a Cambridge International Examination may receive college credit. Scores must be received directly from CIE to Admissions and Records/Enrollment Services before credit is awarded.

## COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

Students who have taken a College Level Examination of the College Entrance Examination Board (CEEB) may receive college credit. Scores must be received
directly to Admissions and Records/Enrollment Services from CEEB before credit is awarded.

Estrella Mountain Community College, Rio Salado College, Paradise Valley Community College, and Mesa Community College are CLEP test sites. For more information on registering for the CLEP examinations, contact the Testing Centers at these colleges.

## DEPARTMENTAL EXAMS (Also known as CHALLENGE EXAMS)

Students may apply for Departmental Credit By Examination in certain courses by obtaining the appropriate form in the Admissions and Records/Enrollment Services, paying the required fee, and completing the examination and other requirements of the college. See fee schedule for appropriate fees. Students may not request:

- To challenge a course a second time;
- To challenge a course while currently enrolled in the course;
- To establish credit in a previously completed course; and
- To establish credit for a lower level of a course in which credit has been received.

Additionally:

- Exceptions may be granted at some of the Maricopa Community Colleges for their unique programs of study. Specialized programs may allow courses to be repeated due to the student needing to have recent knowledge of the content in order to progress in the program.
- Academic departments may have additional requirements that must be met before credit may be granted through Departmental Credit By Examination.
- Only grades of A, B, C, D or P earned as a result of this examination will be recorded on the student's transcript. Fees are not refundable after the examination has been administered, regardless of results.
- When credit is granted as outlined above, a notation of "Credit By Examination," a grade and the number of credits will appear on the student's transcript. The grade is used in computing the grade point average.


## DSST (Formerly DEFENSE ACTIVITY FOR NON-TRADITIONAL EDUCATION SUPPORT or DANTES)

The Maricopa Community Colleges may award credit for DSST Examination Program to individuals who meet or exceed the ACE recommended scores for awarding credit on the DSST Exams. The Maricopa Community Colleges do not
award credit for ENG 102 through DSST Examination. Credit received through DSST is transferable within the Maricopa Community Colleges, but is not necessarily transferable to other colleges and universities.

The assessment center at Rio Salado College is a DSST test site. For additional information on registering for DSST Examinations, call (480) 517-8560.

Students who have taken a DSST Examination may receive college credit. Scores must be received directly from DSST before credit is awarded.

## GED EXAMS

The Maricopa Community Colleges may award credit for GED subject area scores designated as College Ready + In Accordance with the ACE recommended scores. The transcript needs to be sent directly by the Department Of Education to the Admissions and Records Office /Enrollment Services in order to be awarded credit. Disclaimer: test scores are continually reviewed and may be updated at any time.

## EDUCATIONAL EXPERIENCES IN THE ARMED SERVICES

The Maricopa Community Colleges may award credit for military experiences based on the ACE Guide To The Evaluation Of Educational Experiences In the Armed Services. A student may receive college credit if:

- Training parallels a discipline area offered through the Maricopa Community Colleges, and
- Credit meets a program requirement or is used as elective credit.

Upon request, individuals who have successfully completed basic training, four (4) credit hours in physical education will be awarded as indicated in the ACE Guide and the Community College of The Air Force Catalog. Official documentation of military training is required.

## INTERNATIONAL BACCALAUREATE (IB) DIPLOMA/CERTIFICATE

Students who present an International Baccalaureate Diploma/Certificate may qualify for college credit. Maricopa grants credit for college-level courses only. Scores must be received directly from the institution where the exams were administered before credit is awarded.

## CREDIT BY EVALUATION COLLEGE CREDIT RECOMMENDATION SERVICE

ACE evaluates training programs offered by business, industry, and government and publishes its credit recommendations in The National Guide. If a student has received training that appears in the guide, he or she may receive college credit if:

- Training parallels a discipline area offered through the Maricopa Community Colleges, and
- Credit meets a program requirement or is used as elective credit.


## DEPARTMENTAL CREDIT BY EVALUATION

Students may apply for Departmental Credit By Evaluation in certain courses by obtaining the appropriate form in the Admissions and Records /Enrollment Services Office.

Some academic departments may have additional requirements that must be met before credit may be granted through Departmental Credit By Evaluation. When credit is granted a notation of "Credit By Evaluation," and the number of credits will appear on the student's transcript. These credits are not used in computing the grade point average. Credit By Evaluation is transferable within the Maricopa Community Colleges, but is not necessarily transferable to other colleges and universities. Students may not request:

- To challenge a course a second time;
- To challenge a course while currently enrolled in the course;
- To establish credit in a previously completed course; and
- To establish credit for a lower level of a course in which credit has been received.


## PLA AND TRANSFER DISCLAIMER

If pursuing a transfer degree (AA, ABUS, AS, AAEE, AAFA, or Articulated Academic Degree Program), transfer credit and PLA will be granted for the purpose of satisfying Maricopa graduation requirements. Because credits may not transfer to all colleges or universities, contact your transferring institution to determine their transfer credit and PLA requirements and policies.

### 2.2.5

## Catalog Under Which a Student Graduates

Students maintaining continuous enrollment at any public Arizona community college or university may graduate according to the requirements of the catalog in effect at the time of initial enrollment or according to the requirements of any catalog in effect during subsequent terms of continuous enrollment. Students may maintain continuous enrollment whether attending a public community college and/or public university in the state of Arizona.
The rules for maintaining continuous enrollment are:

- A semester in which a student earns course credit will be counted toward continuous enrollment.
- Noncredit courses, audited courses, or courses from which the student withdraws do not count toward continuous enrollment.
- Failure to enroll in three consecutive regular (fall or spring) semesters breaks continuous enrollment; however, enrollment in the intervening summer terms may be used to maintain continuous enrollment status.
- If continuous enrollment is not maintained, the student must fulfill the requirements for graduation specified in the catalog in effect for the academic year in which they re-enroll or any subsequent catalog of their continuous enrollment.
- Students who initially enrolled or re-enrolled during a summer term must follow the annual catalog of the subsequent academic year or any subsequent catalog of their continuous enrollment.


## Age of Credit

In areas of study in which the subject matter changes rapidly, material in courses taken long before graduation may become obsolete or irrelevant. Coursework that is more than ten years old is applicable to completion of certificate and degree requirements at the discretion of the designated individuals at the college. The college may accept such coursework, reject it, or request that the student revalidate its substance. The ten-year limit on coursework applies except when program accreditation agencies limit the life of coursework to less than eight years. Departments may also require students to satisfy current major requirements rather than major requirements in earlier catalogs, when completing earlier requirements is no longer possible or educationally sound.
*Please note that the above language is guided by statewide practices.

### 2.2.6

## Academic Advising and New Student Orientation

## Academic Advising

Students who will be attending college for the first time, and intend to earn a degree or to transfer to a college/university, will be required to meet with an academic advisor within the first two semesters at a MCCCD college.
i. Recent high school students who received MCCCD credits through Dual/Concurrent Enrollment, ACE, Hoop of Learning, or any MCCCD Early Outreach Program are considered first time to college.

## 2. New Student Orientation

Students who will be attending college for the first time, and intend to earn a degree or to transfer to a college/university, will be encouraged to attend New Student Orientation within the first two semesters at a MCCCD college.
i. Recent High School students who received MCCCD credits through Dual/Concurrent Enrollment, ACE, Hoop of Learning, or any MCCCD Early Outreach Program are considered first time to college.

AMENDED through the Administrative Regulation Process, June 12, 2023

### 2.2.7

## Student Assessment and Course Placement

## 2020 Pandemic Response Revised Student Assessment and Placement

1. Course Placement
A. Students who plan to register in English, Reading, or Math will be advised to enroll into courses based on valid District-approved placement methods.
B. Students who place into course(s) that are below college-level (i.e., below 100-level) will be advised to enroll into the course(s) within the first two semesters.
C. A department/division chair or designee may grant a course placement waiver under special circumstances. The signed waiver will be noted on the student's electronic record. The process may also be done electronically without a signature if supported by the attending college.
D. Course placement will be determined utilizing the District placement options under any one of the following conditions:
i. The student is taking his or her first college credit English, reading and/or math course, or any college course for which English, reading or math is a prerequisite.
ii. The student is pursuing a degree or transfer pathway and does not have current valid District approved course placement on file or does not have previous college credit in English, reading and math.
iii. The student for whom English is not the primary language and who is taking his or her first English as a Second Language class is required to take a test of English proficiency.
E. Students will be exempt from the course placement process if at least one of the following conditions apply:
i. The student has earned an associate or higher degree from a regionally accredited college.
ii. The student has earned college credits from a regionally accredited college in English, reading, and math with a grade of C or higher.
iii. The student has currently valid District approved course placement scores on file.
iv. The student who is exempt from the course placement process must still fulfill the minimum graduation requirements.

## 2. Determining Course Placement

Maricopa County Community Colleges use multiple placement options. In cases, when a course placement test is given, scores will be valid for two years. Other placement methods will also have limited time validity. For additional information, go to: Placement.
A. Reading placement test scores that indicate "exempt from CRE101" do not expire.
B. Students will be permitted one re-test in English, Reading, or by Math level after at least a 24 -hour waiting period. One additional re-test is permitted no sooner than three months from the oldest valid score date at any course placement testing site.
C. The Vice President of Student Affairs or designee may approve retesting for students with special needs or circumstances. The re-test date will then serve as the date of record.

## 3. Implementation of Policy

To ensure consistency of the course placement process within the Maricopa Community Colleges:
A. All colleges shall accept the same approved course placement methods.
B. All colleges shall adhere to the same approved placement scores.
C. All colleges shall adhere to the approved limited time validity for each course placement method. For more information, go to: Placement.
D. Reading placement scores that indicate "Exempt from CRE101" Do Not Expire.

## 4. Evaluation

The Maricopa Community Colleges will provide an ongoing evaluation of the course placement process. An annual report shall be submitted to the Governing Board to indicate the policy's effectiveness noting the number of students assessed, their placement scores and their success in courses. Every three years a thorough review of the policy and procedures shall be implemented, including recommendations from the English, Reading and Math Instructional Councils regarding cut-off scores, course placement assessment tools and procedures.

### 2.2.8

## Registration

Students must register according to the dates indicated, and in the manner described in the college class schedule. To be eligible for registration, students must have completed the appropriate steps listed under the Admissions section. The college may allow early or priority registration. Tuition and fees must be paid or payment arrangements made by the due date to secure class enrollment. Students may not attend a class for which they are not registered.
The colleges reserve the right to enroll students in courses. The final decision for admission to any class for students admitted under section 2 of AR 2.2.1 will be determined by the designated college administrator in consultation with the department chairperson and/or faculty.
Class Registration Deadlines:

1. For classes with published start dates and meeting times, registration in the class must be completed before the first official class meeting date and time. Students may not register for a class once it has started. Self-Service registration for a class through www.maricopa.edu/students will end at 11:59 PM on the day before the class starts. Registration for a class on the date it starts must be done in person or on the phone, and must be completed before the class start time.
2. For classes without published meeting times (for example, online classes, special projects), registration in the class must be completed by 11:59 PM on the day before the class starts.
3. Exceptions

- Exceptions are limited to
i. Courses requiring permission of instructor
ii. Courses requiring auditions or try-outs
iii. Courses for Special Populations or Cohorts
iv. Enrollment in an alternative section of a course taught by the same instructor
v. Enrollment in an alternative section of a course taught by a different instructor
vi. Course level changes
vii. Students dropped for non-payment during the $100 \%$ refund period may be reinstated if they attended since the first $D A Y$ class meeting.
viii. Students dropped due to Human or system errors may be reinstated if they attended the first $D A Y$ class meeting.
ix. Other exceptions may be granted after faculty consultation with the student.
- Exceptions to class registration deadlines require permission of appropriate instructor(s) and approval of the appropriate department/division chair or designee.


### 2.2.9

## Tuition and Fees Policy

Tuition and fees are public monies within the jurisdiction and responsibility of the Maricopa Community Colleges Governing Board under the laws and regulations of the State of Arizona and must be administered by the Governing Board. The Governing Board reserves the right to change tuition and fee charges when necessary without notice. All students are classified for tuition purposes under one of the following residency classifications:

1. Maricopa County resident
2. Out-of-County resident
3. Out-of-State resident (including F-1 non-immigrant students) Residency for tuition purposes is determined in accordance with state law (ARS §§151801 et seq.) and regulations of the Maricopa Community Colleges Governing Board. All of the Maricopa Community Colleges are subject to the above statutes and regulations. Students who have questions about their residency should contact the Admissions and Records Office/Office of Student Enrollment Services for clarification.

Students attending more than one Maricopa Community College will be assessed fees for their enrollment at each of the Maricopa Community colleges/centers. (Students who are considered to be out-of-state residents for tuition and fees purposes should refer to Appendix S-3, Concurrent Enrollment in Arizona Public Institutions of Higher Education.)

## 1. Time of Payment

All tuition, fees, assessments and deposits must be paid at the time of registration or by the specified deadline date and in accordance with the fee schedule approved by the Maricopa Community Colleges Governing Board.
2. Tuition and Fees Schedule

Current information can be found at
https://district.maricopa.edu/regulations/admin-regs/appendices/students/s-4.
The following is a tuition and fees schedule and is provided for reference.
These tuition and fees are subject to change. Consult the college's Admissions and Records Office/Office of Student Enrollment Services for course fees in effect during the semester/term in which you intend to register. See Appendix S-4

## 3. Outstanding Debts

Any debt or returned check may revoke a student's current enrollment and the student's right to register in subsequent semesters at all Maricopa Community Colleges. Delinquent debts may require penalties, late charges, collection costs, and/or legal fees to be paid before good standing is restored to the student.

The following procedure will be used for the collection of returned checks and other outstanding debts:
A. The designated college official or fiscal officer is responsible for:
i. Verifying the student's district wide debt,
ii. Attempting to notify the student of the debt and
iii. Attempting to collect the debt.
B. Maricopa Community College services may be withheld pending payment of debt (at designated college office) with cash, certified check or money order or online with debit or credit card or in person with credit card. Student may be withdrawn from classes.
C. If other collection attempts fail, the Maricopa Community Colleges District Office will either collect or use other means available, including:
i. Collection agency, requiring payment of collection fees by the student;
ii. The Tax Refund Setoff Programs as stated in ARS §42-1122;
iii. Litigation, requiring payment of court costs and legal fees by the student.
D. Debt Holds may be lifted only in limited instances by the appropriate College or District business services designed for the extension of services provided that at least one of the following conditions are met:
i. MCCCD staff verify that full payment has been made to another College;
ii. The College can deduct payment from a financial aid award made to the student (referring to student authorization guidelines for regulations on applying federal financial aid to debt balances);
iii. A third party not related to the student, such as an employer or state agency, makes a verified payment directly to the College;
iv. It is determined and verified with the appropriate MCCCD office that the hold resulted from a system error and the error is due to an activity that requires correction by the appropriate College or District personnel.
E. Admission Criteria to Attend a College within the Maricopa Community College District (MCCCD) is determined in accordance with state law (ARS §§15-1805.01 AND 15-1821) and regulations of the Maricopa Community Colleges Governing Board and the Chancellor. As such, participants enrolled in courses as part of third-party agreements are also subject to the same admissions criteria. This includes the participants resolving any current enrollment or administrative holds that are unrelated to the Third party in an existing student account, but that otherwise impact his/her eligibility to enroll in courses or participate in programs delivered by MCCCD faculty or staff.
4. Discounted Fees and Waivers
A. Citizens 62 years of age and older shall be issued ID cards that allow them the privilege of attending events at no cost and that allow them to use the library facilities.
B. Employees, Dependents and Mandated Groups

The Maricopa Community College District waives tuition and student activity fees for credit-hour courses for employees and their dependents, and for legislatively mandated groups. Special fees and fees for Noncredit/Special Interest Community Services courses are not waived.

## C. Tuition and Registration Fee Waiver for Members of the PimaMaricopa Indian Community

Tuition and fee waivers shall be funded through Auxiliary Fund Monies for college credit courses for the enrolled members of the PimaMaricopa community who live on the Pima-Maricopa Reservation.
All other guidelines and procedures established for the purpose of administering waivers, affidavits and exemptions are outlined in the Maricopa County Community College District tuition waiver manual.

## Refund Policy

## 1. Refund Policy for Credit/Clock Classes

Students who officially withdraw from credit/clock classes (in fall, spring, or summer) within the withdrawal deadlines listed below will receive a $100 \%$ refund for tuition, class and registration fees. Deadlines that fall on a weekend or a college holiday will advance to the next college workday except for classes fewer than 10 calendar days in length or as specified by the college. Calendar days include weekdays and weekends. Refer to individual colleges for withdrawal and refund processes. Never attending is not an allowable refund exemption or an excuse of the debt incurred through registration.

## Length of Class Official Withdrawal Deadlines for 100\% Refund

1-9 calendar days Prior to the class start date
10-19 calendar days 1 calendar day including the class start date
20-29 calendar days 2 calendar days including the class start date
30-39 calendar days 3 calendar days including the class start date
40-49 calendar days 4 calendar days including the class start date
50-59 calendar days 5 calendar days including the class start date
60-69 calendar days 6 calendar days including the class start date
$70+$ calendar days 7 calendar days including the class start date
*Course fees will be refunded only if the student qualifies for a $100 \%$ refund. Debts owed to any MCCCD college must be satisfied before any refunds are paid to the student. Refunds for students receiving federal financial assistance are subject to federal guidelines. Requests for exceptions to the refund policy must be filed within one year from the semester in which the course was taken.

## 2. Refund Policy for Non-Credit Classes

Unless otherwise specified, students must drop non-credit classes prior to the course start date to be eligible for a $100 \%$ refund.

## 3. Canceled Classes

When a class is canceled by the college, a $100 \%$ refund will be made.
4. Refund Exceptions

Students withdrawing from a college or from courses for one of the following reasons must submit a written request for a refund exception to the Admissions and Records Office/Office of Student Enrollment Services or designated college official:
A. A student with a serious illness, verifiable by a doctor's written statement that the illness prevents the student from attending all classes for the semester. The doctor's statement must be on file with the college before a refund can be given.
B. Serious illness or death of an immediate family member that prevents the student from attending all classes for the semester. Immediate family members include spouse/partner, father, mother, grandfather, grandmother, child, foster child, grandchild, stepchild, sibling, stepsibling, stepfather, stepmother, or spouse's/partner's father, mother, grandfather, grandmother, or in-laws in any one incident. Appropriate documentation must be provided before a refund can be given.
C. Death of a student. Appropriate documentation must be provided before a refund can be given.
D. A student in the Armed Forces or the Arizona National Guard who is called to active duty and assigned to a duty station, verifiable by a copy of the orders, will be allowed to withdraw and receive a $100 \%$ refund of tuition, provided courses have not been completed.

Requests for a total withdrawal from a college or courses for one of the above reasons may result in a partial prorated refund of tuition, provided courses have not been completed. All decisions made by the college are final.

Limitation: Never attending is not an allowable refund exception or an excuse of the debt incurred through registration
5. Refund Policy for Department of Defense Tuition Assistance Funds

Students who receive tuition assistance (TA) funds for a course or courses from the Department of Defense (DOD) may have a refund processed and returned to the student's DOD branch of service in the following situations. Refer to individual colleges for withdrawal and refund processes.
A. Per Refund Exception D, a student who is called to active duty and assigned to a duty station, verifiable by a copy of the orders, will be allowed to withdraw, provided courses have not been completed. A $100 \%$ refund of TA funds will be issued to the student's DOD branch of service.
B. A student who withdraws for reasons other than those outlined above within the first $60 \%$ of the period for which funds were received will have the proportional amount of unearned TA funds returned to the student's DOD branch of service. Refer to individual colleges and DOD branch of service for potential student financial responsibility as a result of withdrawal.

Requests for refund should be referred directly to the College of Enrollment.

## AMENDED through the Administrative Regulation Process, June 12, 2023

### 2.2.11

## Student Financial Assistance

The Maricopa Community Colleges provide students financial assistance to enable access to higher education. Student financial assistance shall be awarded on the basis of demonstrated financial need except where funds are specified for recognition of special talents and achievements. Additional procedural information on financial assistance is available in Appendix S-5.

## S-5 Student Financial Assistance

## Additional Information about Financial Aid may be found at www.maricopa.edu/students website.*

The Maricopa Community Colleges provide students financial assistance to enable access to higher education. Student financial assistance shall be awarded on the basis of demonstrated financial need except where funds are specified for recognition of special talents and achievements. Only those with a lawful presence in the United States may qualify for federal financial aid. Under Arizona state law, undocumented students may qualify for Maricopa County Community College District (MCCCD) scholarships if they meet the terms outlined under Proposition 308.

The office of financial aid may request to have the validity of a student's high school completion evaluated if either the college or the United States Department of Education has reason to believe that the high school diploma is not valid or was not obtained from an entity that provides secondary school education. An evaluation may be conducted on the basis of any of the following:

- Alerts, bulletins, or similar communications provided by any state, federal, or other governmental agency, another institution, a professional or similar
organization, or any other resource that might provide information helpful to the evaluation;
- A transcript or other record received from another institution the student may have attended;
- The contents of the student's Free Application for Federal Student Aid, student information form, or any other information the student provides to the college;
- The independent professional judgment by any official of the office of student financial aid.


## How to Apply for Federal Financial Aid

New students must complete the Free Application for Federal Student Aid (FAFSA) or FAFSA on the web at Federal Student Aid. Each academic year, continuing students must reapply by completing a FAFSA, Renewal FAFSA, or FAFSA on the web. Scholarships require separate applications. Specific information regarding financial assistance, including application deadlines or priority dates, may be obtained from the college Office of Student Financial Aid.

## Types of Aid

Grants, loans, student employment, and scholarship funds may be available from federal, state, and/or private sources.

The Maricopa Community Colleges Foundation offers a variety of scholarship opportunities. Scholarship opportunities are available year round. However, most scholarships are posted mid-January and most deadlines are the last week of March. Options are available at Scholarship Application or by calling 480-731-8400.

## Distribution of Aid

Criteria by which aid is distributed among eligible financial aid applicants are available on request at the college Office of Student Financial Aid.

## Rights and Responsibilities

Students should read all information provided in the process of applying for federal financial aid in order to gain a greater knowledge of all the rights as well as responsibilities involved in receiving that assistance.

## Satisfactory Academic Progress

Specific requirements for academic progress for financial aid recipients are applied differently than scholastic standards. In addition to scholastic standards which are explained elsewhere in this catalog, financial aid recipients are also subject to the following Standards of Satisfactory Academic Progress. Specific information is available at the college Office of Student Financial Aid.

## Refunds and Repayments

In accordance with federal regulations (CFR 668.22), a student may be required to repay federal financial aid funds if they completely withdraw, are withdrawn, or fail to earn a passing grade from all classes during a semester. Further information is available at the college Office of Student Financial Aid. This could affect a student's ability to receive Financial Aid in the future at any school. For a student receiving Financial Aid, also see Appendix S-6 for Withdrawal procedures.

## Verification of Information

1. A Free Application for Federal Student Aid (FAFSA) or a change to that FAFSA may be selected for verification. If a student's FAFSA is selected for verification, the student will be notified via the Student Center at www.maricopa.edu/students. In most cases, the student will be required to submit documentation as part of the verification process. The earlier the Financial Aid Office receives the required documentation, the earlier the student's eligibility for financial aid can be determined. The verification process must be completed no later than 120 days after the last date of enrollment or August 31, whichever comes first. In addition, the Financial Aid Office must receive a final and valid electronic SAR by the student's last day of enrollment or June 30 of the award year, whichever comes first. The verification process must be completed before the Financial Aid Office can award any federal aid.
2. If an award has already been made and a FAFSA is selected for verification, the student must provide required documentation within thirty days after it has been requested of the student or on June 30, whichever comes first. If documentation is not received within this deadline, the student's award may be adjusted or canceled.
3. The required forms and documents a student submits for verification will be compared to the information reported on the student's FAFSA. If the
information provided does not match what is shown on the FAFSA, the Financial Aid Office will submit changes to the US Department of Education FAFSA processor. After all changes are made to the FAFSA data, the student's eligibility for financial aid will be reviewed. If there are any changes to the student's financial aid eligibility as a result of verification, the student will be notified by means of the Student Center at www.maricopa.edu/students. If, following verification, the institution discovers evidence of student aid fraud (including identity theft), waste or abuse of US Department of Education funds, such evidence may be referred to the Office of Inspector General of the US Department of Education.

## Award Amount and Level of Enrollment

Award amount is determined, in part, on the level of enrollment. A reduction in course load after financial aid has been awarded may result in an adjusted financial aid award. Federal student aid recipients are advised to register at the same time for all classes they intend to take during a semester to maximize award. Some federal aid may not be awarded for classes added at a later date. Contact the college Office of Student Financial Aid for more information.

## Repeated Coursework and Financial Aid Enrollment Status

Federal regulations regarding repeated coursework may impact your financial aid eligibility and awards. Federal regulations specify that students may receive federal financial aid funding for one repetition of a previously passed course. A passed course is defined as one in which a grade of $\mathrm{A}, \mathrm{B}, \mathrm{C}, \mathrm{D}$, or P is received. If you enroll in a course in which you have previously received passing grades twice, the course will not be counted towards your enrollment level for financial aid purposes. You may repeat a failed course until it is passed. Your enrollment for financial aid purposes will be calculated accordingly.

## Maricopa Community Colleges Standards of Satisfactory Academic Progress (SAP) for Financial Aid Eligibility

Federal regulations (CFR 668.32(f) and 668.34) require a student to move toward the completion of a degree or certificate within an eligible program when receiving financial aid. Specific requirements for academic progress for financial aid recipients are applied differently than Scholastic Standards. Federal regulations state that Academic Progress Standards must include a review of all periods of enrollment, regardless of whether or not aid was received. Students will be evaluated using the
standards described below. Failure to meet any of these minimum standards will result in loss of Title IV, HEA program (federal financial aid) eligibility.

To remain eligible for federal and state aid programs, students must meet ALL of MCCCD's Satisfactory Academic Progress (SAP) standards regardless of whether a student has received financial aid in the past or not. These standards apply to a student's entire academic records at any MCCCD college, including transfer credit hours accepted by the college.

## 1. Definitions and Terminology Pertaining to this Policy

1. Summer: Enrollment in the summer semester includes all courses scheduled within the summer enrollment period with all coursework counted in the SAP evaluation.
2. Non-Standard Session / Clock Hour: Sessions that do not follow the traditional start and end dates for the semester.
3. Attempted Credit: Any credit for which a grade of A, B, C, D, F, I, IP, $\mathrm{N}, \mathrm{P}, \mathrm{W}, \mathrm{Y}$, or Z is received and courses not yet graded.
4. CGPA [Cumulative Grade Point Average]: The MCCCD grading policy is published in the administrative regulations at 2.3.3. The CGPA does not include credits accepted in transfer.
5. Financial Aid Warning: status assigned to an eligible payment period for the next enrolled semester after failing SAP GPA (2.0) and/or Completion Pace ( $2 / 3$ ). Students not meeting maximum timeframe evaluation are not eligible for a warning period.
6. Appeal: A process by which a student who is not meeting the institution's satisfactory academic progress standards is eligible to appeal the institution for reconsideration of the student's eligibility for Title IV, HEA program assistance based on extenuating circumstances.
7. Extenuating Circumstance: A one-time (not on-going) circumstance that is beyond the reasonable control of the student. Examples of extenuating circumstances may include, but not limited to:
8. Documented medical condition or serious illness that prevented you from performing certain life tasks
9. Documented illness of a family member that required your presence for a significant amount of time
10. Death of immediate family member which impacted you significantly enough to affect participation in your courses
11. Involuntary call to active military duty
12. Documented involuntary change in employment conditions that prevented you from attending classes

## 6. Any other extraordinary/emergency circumstances, such as a natural disaster

8. Financial Aid Probation: A status assigned by an institution to a student who fails to make satisfactory academic progress and who has appealed and has had eligibility for aid reinstated. A student in this status may not receive Title IV, HEA program funds for the subsequent payment period unless the student makes satisfactory academic progress or the institution determines that the student met the requirements specified by the institution in the academic plan for the student.
9. Academic Plan - A plan developed through the SAP Appeal Process which will lead a student to qualify for further Title IV, HEA program funds and complete the program within $150 \%$ of published program length.
10.Financial Aid Suspension - The status assigned upon failing to meet the minimum SAP standards or the terms of probationary status. Students in this status are not eligible to receive Title IV, HEA assistance.
10. Federal regulations (CFR 668.32(f) and 668.34) require institutions of higher education to evaluate Satisfactory Academic Progress (SAP) using qualitative (GPA) and quantitative (pace of progression) standards.
11. Qualitative and quantitative measures of SAP are required to ensure students receiving Federal Student Aid are progressing towards the completion of a degree or certificate within an eligible program.
12. Specific requirements for academic progress for Federal Student Aid recipients are applied differently than Scholastic Standards. Federal regulations state that SAP Standards must include a review of all periods of enrollment, regardless of whether or not aid was received. Standards are applicable for all enrolled payment periods, including all levels of enrollment (full-time or part-time enrollment). Students will be evaluated using the standards described below.
13. Failure to meet any of the minimum standards outlined below will result in a student's loss of HEA, Title IV Federal Student Aid.

## Evaluation Period

1. Standards of Satisfactory Academic Progress (SAP) will be evaluated at the end of each payment period. For credit hour programs, a payment period is a semester (Fall, Spring, and Summer). For clock hour programs, a payment period / evaluation will depend on the hours required in the program.
2. Standards of Satisfactory Academic Progress (SAP) are evaluated based on qualitative (GPA), quantitative (pace of progression), and maximum timeframe. Failure to meet any of these standards may result in the loss of eligibility for
financial aid. Grades of F, I, N, W, Y, Z, and courses not yet graded are considered attempted, but not completed in evaluating SAP. Late grades will be recalculated and may change eligibility.
3. Grade Point Average Qualitative Measurement: Students must maintain a 2.0 cumulative Grade Point Average in order to meet SAP GPA requirements.
4. Pace of Progression Quantitative Measurement: Students must successfully complete $2 / 3(66.67 \%)$ of all attempted course work. For clock hour programs, please refer to program attendance requirements.
5. Maximum Time Frame Measurement: Students must be able to complete their program within $150 \%$ of the published program length. Once students have attempted $150 \%$ of the published program length, they are no longer eligible for Federal Student Aid. For example, a 16credit certificate program will allow up to 24 credit hours to complete the program. A 60 credit Associate's degree will allow up to 90 credit hours to complete the program. A 120 credit Bachelor's degree will allow up to 180 credit hours to complete the program.
6. Courses included in SAP evaluation:
7. All attempted coursework, regardless of enrollment status
8. Courses funded through a Consortium Agreement
9. All attempted remedial credits, including English as a Second Language (ESL) courses.
10. Repeated course work
11. All transferred coursework
12. Grades attempted, but not completed (F, I, N, W, Y, Z)
13. Course work included in the Maximum Time Frame evaluation:
14. All of those included in the Pace of Progression evaluation
15. Any Bachelor's degree (or higher) earned will be considered to have exhausted maximum timeframe eligibility
16. All coursework forgiven through the Academic Renewal Process
17. Course work not included in SAP evaluation:
18. Audited courses
19. Non-credit courses
20. Credit by examination
21. Credit for prior learning option (as outlined in the college general catalog)

## Notification

Students who have applied for Federal Student Aid, but are not meeting Satisfactory Academic Progress requirements, will be notified via email of their FA Warning or ineligibility for financial aid. The notification will direct students to information regarding available college resources during the Warning Period and the appeal process in cases of extenuating circumstances.

## Financial Aid Warning

Students are allowed a warning period upon failing Qualitative and/or Quantitative SAP standards. The warning period allows one (1) payment period (semester) of Federal Student Aid eligibility upon failing SAP. The warning period will follow the semester for which SAP was not met, meaning the next semester for which the student registers for classes. In order to receive the Warning period, students must be meeting Maximum Timeframe requirements.

## SAP Appeal

Any student who has lost federal student aid eligibility due to a resolved, one-time extenuating circumstance may appeal to have their financial aid reinstated by completing a Satisfactory Academic Progress Appeal Form. The form must address:

1. what caused the student's work to fall below acceptable standards--specific explanations must be provided, including any supporting documentation,
2. each incomplete/failed course,
3. how the extenuating circumstance has been resolved, and
4. how the student will maintain good academic standards and progress toward the degree if the appeal is granted.

The outcome of the appeal will depend upon:

1. the nature of the extenuating circumstances (if the stated circumstance qualifies as such),
2. the quality of the documentation provided, and
3. how well the student has demonstrated the ability to progress towards degree completion within a reasonable time period.

All documentation submitted is confidential. All decisions are final and cannot be appealed. For assistance in completing the SAP appeal paperwork, including examples of supporting documentation, visit your college Financial Aid Office.

Students will be notified of the results of their appeal within ten (10) days of filing the appeal. Notification will include any restrictions or conditions pertaining to their appeal. The outcome of an appeal may include a probationary period. Appeals granted longer than one (1) payment period must include an academic plan, which must be followed. Failure to follow an approved academic plan will result in immediate suspension of Federal Student Aid. Students are responsible for any and all debt incurred as a result of this adjustment to financial aid.

Failure to successfully complete all conditions during the probationary period (as defined in the academic plan) will result in loss of future financial aid eligibility.

## Regaining Eligibility

A student who has lost financial aid eligibility may only regain eligibility by meeting the minimum SAP standards. Transfer coursework taken at other colleges will be considered for reinstatement purposes.

If you are receiving federal financial aid, it is important to read the information below prior to making a decision to withdraw.

## Treatment of Title IV Aid When a Student Withdraws

## POLICY SUMMARY STATEMENT

To provide guidance on the treatment of federal student aid (Title IV) funds when a student withdraws from a Maricopa College.

## DEFINITIONS

Date of Determination - The date of determination is the date in which the school determines that a student ceased attendance or completely withdrew from school. This may be the date that the institution becomes aware that the student ceased attendance, or the date that the student begins the official withdrawal process at the school.

Earned Aid Calculation - A formula used to determine the amount of Title IV aid the student earned for the payment period. To calculate the amount of Title IV aid earned by the student multiply the percentage of Title IV aid earned by the student, by the total amount of Title IV aid disbursed (including that which could have been
disbursed to the student or on behalf of the student), for the payment period as of the student's withdrawal date.

Official Withdrawal - The process by which a student begins the school's official withdrawal process or provides official notification to the school of his or her intent to withdraw. The student's approach to his or her withdrawal directly impacts the school's date of determination for which the student ceased attendance, and is used in the return of Title IV funds calculation.

To officially withdraw, the student will need to notify a designated office; this office for most MCCCD colleges is the Admissions and Records department. The designated office staff will assist the student to complete the withdrawal process. Schools will utilize a change in student status or comparable form to record a student's withdrawal, official or unofficial (see "unofficial withdrawal" definition). The school registrar will determine the last date of attendance based on federal and institutional policy and the school's date of determination. The date of determination is either the date that the student began the prescribed withdrawal process, or the date that the student provided the school with an official notification of his or her intent to withdraw, whichever is later. If the student is present, the student will sign and date the change in status or comparable form. Designated office staff will also sign and date the form, and retain it in the student's file at the school.

Order Of Return of Title IV Funds - A federally prescribed order for returning Title IV FUNDS required as a result of a return of Title IV funds calculation. Unearned funds, returned by either the institution or the student, are credited to the programs from which the student received the aid from during the payment period, up to the net amount disbursed from each program. Funds will be returned based on the following order:

1. Unsubsidized Federal Direct Stafford Loans
2. Subsidized Federal Direct Stafford Loans
3. Federal Direct Plus Loans
4. Federal Pell Grants
5. Iraq and Afghanistan Service Grants
6. FSEOG
7. Teach Grants

Percentage of Title IV Aid Earned - Definitions for term, and modular programs below, in accordance with ED regulations:

Title IV Credit Balance - A Title IV credit balance occurs whenever the amount of Title IV Funds credited to a student's account for a payment period exceeds the
allowable charges associated with the semester (payment period). All Title IV federal student aid credit balances are disbursed directly to the student and refunded to the method selected in the student center. Refunds are generally processed within 3 business days but no later than 14 days of when credit balance occurred.

## STANDARD TERM PROGRAMS

Upon the withdrawal, the District Office Student Financial Services (DOSFS) will calculate the percentage and amount of awarded federal student aid funds that the student has earned in the payment period. In some cases and depending upon the withdrawal date and percentage of completion, the student may earn 100 percent of the FSA funds, the calculation will still be completed as required and the amount earned will be based on the percentage of the term or payment period that was completed in days up to and including the last date of attendance or eligible academic activity, with scheduled attendance locked at census / Pell recalculation. To calculate the amount earned, DOFA will determine the percentage by dividing the number of calendar days completed in the term/payment period up to and including the last date of attendance by the total number of calendar days in the term/payment period. The number of days a student is scheduled to attend during a payment period is determined based on the start and end date of the scheduled term / payment period. All scheduled breaks during the term / payment period are excluded from the calculation.

## MODULES

A program that is offered in modules is a program that consists of course(s) in the program that do not span the entire length of the payment period or period of enrollment. Regulatory change effective July 1, 2021: a program is offered in modules if the program uses a standard-term or non-standard term academic calendar, is not a subscription-based program, and a course or courses in the program do not span the entire length of the payment period or period of enrollment. The DOSFS will calculate the percentage and amount of awarded federal student aid that the student earned within the payment period. If the student has completed more than 49 percent of the payment period, or has completed all of the degree requirements from his/her program before completing the days/hours in the period that he/she was scheduled to complete, or if the student completes coursework equal to or greater than the coursework required for the institution's definition of a half-time student for the payment period, or the school receives written notification that the student will attend a module that begins in the same payment period or period of enrollment, the student is not considered to have withdrawn, and a Return of Title IV Funds (R2T4) is not required and will not be calculated.

When a student withdraws from the payment period before completing 49 percent of the payment period, the amount of federal student aid the student earned is determined based on a specific formula. The number of days a student is scheduled to attend during a payment period is determined based on the start and end date of the scheduled term / payment period, with scheduled attendance locked at census / Pell recalculation. Scheduled breaks are excluded from the calculation. The amount of assistance the student earned is determined on a rate-of-progression basis.

Post-Withdrawal Disbursement- If, as of the date of the institution's determination that the student withdrew the amount of Title IV aid that the student earned is more than the amount of Title IV aid disbursed to the student or on behalf of the student, the difference between these amounts is considered earned aid, and must therefore be applied to outstanding charges on the student's account and/or directly disbursed to the student.

Return of Title IV Funds (R2T4) - When a recipient of Title IV aid withdraws from an institution during a payment period or period of enrollment in which the recipient began attendance, the school must calculate the amount of earned and unearned Title IV aid and compare this to the amount of aid disbursed at the date of determination, to determine how to proceed.

If it is determined that the amount of Title IV aid disbursed exceeds the amount of Title IV aid earned, a return of Title IV funds is due, and both the school and the student may have a responsibility for returning the unearned portion of the funds. The school must return the unearned portion of Title IV aid for which the school is responsible for and notify the student of the unearned portion of Title IV aid that the student is responsible for and therefore must return.

If it is determined that the amount of earned Title IV aid exceeds the amount of Title IV aid disbursed, the student may be eligible for the amount of aid not yet disbursed, in the form of a post-withdrawal disbursement. A post-withdrawal disbursement must be made within 180 days of the date the institution determined that the student withdrew. The amount of a post-withdrawal disbursement is determined by following the requirements for calculating earned Title IV aid and has no relationship to incurred educational costs. All Title IV federal student aid credit balances are disbursed directly to the student and refunded to the method selected in the student center. Refunds are generally processed within 3 business days but no later than 14 days of when credit balance occurred.

## TITLE IV LOANS

For unearned funds calculated to be returned by the school:
It is policy, as part of the R2T4 process, to provide notification to the student indicating the loan type(s) and amount(s) calculated as needing to be returned and, thus, the date returned by the school. The school must return the lesser of the amount of Title IV funds not earned, or the amount of institutional charges that the student incurred for the payment period multiplied by the percent of funds not earned.

For unearned Title IV funds calculated to be returned by the student:
If there is a remaining balance of unearned Title IV aid which needs to be returned, after the school has returned its portion of unearned Title IV aid, the student (or the parent for plus loan) is responsible for returning this amount. While the student must return or repay any unearned Title IV loan amount in accordance with the terms of the loan, the student must repay any unearned Title IV grant funds as an overpayment of the grant. The student's portion is calculated by subtracting the amount of unearned Title IV aid that the institution is required to return from the total amount of unearned Title IV aid required to be returned. If it is calculated that unearned loan(s) need to be returned by the student, the center will notify the lender or servicer of the student's last date of attendance; the student will not need to repay the loan(s) immediately, but will repay the loans based on the terms of the promissory note. The lender or servicer will notify the student or parent, per the terms of the promissory note.

## TITLE IV GRANTS

For unearned funds calculated to be returned by the school or student:
It is policy, as part of the R2T4 process, to provide notification to the student indicating the grant type(s) and amount(s) calculated as needing to be returned and, thus, the date returned by the school.

Return of Unearned Aid - If, as of the date of the institution's determination that the student withdrew the amount of Title IV aid that the student earned is less than the amount of Title IV aid disbursed to the student or on behalf of the student, the difference between these amounts is considered unearned aid, and must therefore be returned to the Title IV program in a specified order, by either the school, the student, or both.

Unofficial Withdrawal (also known as an "administrative" withdrawal) - A student who did not begin the official withdrawal process or provide notification of his or her
intent to withdraw; the date of the school's determination that the student withdrew would be the date that the school becomes aware that the student ceased attendance. See "official withdrawal" definition above.

A student who does not notify the school that $\mathrm{s} /$ he is withdrawing but ceases attending, is administratively withdrawn by the school within 14 days of nonattendance; this is otherwise known as an unofficial withdrawal. A student is administratively withdrawn from school when the student violates the school's published attendance policy, which adheres to state licensing and accreditation requirements. Please see the school's catalog for its current attendance policy.

Withdrawal Date (also known as the "last date of attendance") - The date that the student begins the school's withdrawal process or the date that the student provides official notification of intent to withdraw, whichever comes earlier. If the student does not provide any official notification of intent to withdraw, the withdrawal date will be determined by the school, and depend upon the student's circumstances.

## FEDERAL TITLE IV REFUND POLICY

If a recipient of Title IV grant or loan funds withdraws from a school after beginning attendance, the school must perform a Return of Title IV funds (R2T4) calculation to determine the amount of Title IV federal student aid funds earned by the student. If the calculation determines that the amount of Title IV aid disbursed to the student is greater than the amount the student earned, the unearned Title IV funds must be returned to the program. If it is determined that the amount of Title IV aid disbursed to the student is less than the amount the student earned (and for which the student is otherwise eligible for), the student may be eligible for a post-withdrawal disbursement for the earned Title IV funds not yet disbursed to the student.

The R2T4 calculation is required if a student receiving Title IV federal student aid ceases attendance or completely withdraws from all courses without completing the semester (payment period).

The school must determine the amount of Title IV aid earned by the student, as of the withdrawal date. Once the earned portion is calculated, the unearned portion is calculated to determine if funds must be returned to the program or a post-withdrawal disbursement is necessary. Federal policy is followed to determine the amount of Title IV aid earned on a case-by-case basis. The R2T4 calculation is always required when a student fully withdrawals or ceases attendance prior to the scheduled end of the semester, the calculation may determine that the student earned $100 \%$ of Title IV funds and will not be required to return funds. A return of Title IV funds worksheet is
calculated when a student ceases attendance in all courses within the scheduled semester (payment period), i.e. withdrawal.

## WITHDRAWAL PROCEDURE OVERVIEW:

## Policy Disclaimer

This policy serves as a guideline for the refund of Title IV and tuition procedure with the understanding that it does not cover every possible scenario. As a result, complex areas may arise where certain refund procedures may need to be addressed on a case-by-case basis.

## Party(ies) Responsible for Policy Training

MCCCD District Office of Financial Aid Compliance and Operations / Office of General Council. District Director of Financial Aid Operations and Compliance. The policy owner is responsible to determine the method, means and frequency of training on this policy.

## Exceptions

Requests for an exception to this policy should be addressed to the policy owner as outlined in the procedure for requesting a policy exception.

## Policy Review/Update and Audit

This policy will be reviewed annually. Compliance with this policy is audited on a random basis by Internal Audit.

AMENDED through the Administrative Regulation Process, June 12, 2023

### 2.2.12

## Vaccinations (As Required By 20 USC §1092(a)(1)(V))

The Maricopa County Community Colleges District does not require that students receive vaccinations prior to enrollment. Certain professional or occupational programs do require particular vaccinations for participation in those programs. More information about these programs can be found on college websites.
2.2.13

University Transfer

The Maricopa Community Colleges have developed formal agreements to facilitate the transfer of credit to other bachelor degree awarding colleges and universities. This is accomplished through the development of course and program articulation agreements. The Maricopa Community Colleges articulate with accredited private, public, and international baccalaureate granting institutions. Maricopa transfer agreements are on behalf of the District as a whole and not with individual colleges within the district. Courses taken at any of the Maricopa Community Colleges are equally transferable by institutions wishing to articulate. Students planning to transfer to a university may be required to submit official transcripts.

Articulated Transfer Programs and pathways between the Maricopa Community Colleges and other institutions [such as the MyPath2ASUTM , the UA Bridge Program, 2NAU and 90/30 transfer agreements] are official, recognized programs of study that fulfill degree requirements at both institutions. These articulated programs and pathways are designed to aid in a smooth transition for a student planning to transfer to a college or university by identifying the required, transferable, and applicable coursework for that student's specific program of study. A complete list of MyPath2ASU ${ }^{\text {TM }}$ requirements by major and catalog year is maintained on ASU'S website, at Transfer.

## ARIZONA PUBLIC COMMUNITY COLLEGES AND UNIVERSITIES

Maricopa is a participant in the Arizona statewide transfer system. AZTRANSFER.COM is the official source of information for the statewide articulation agreements between the Arizona public community colleges and universities (Arizona State University, Northern Arizona University, and University of Arizona). Included on AZTRANSFER.COM is the Course Equivalency Guide (CEG), which shows transfer course equivalencies between Arizona's public community colleges and tribal institutions to Arizona State University, Northern Arizona University, and the University of Arizona. The transferability of a course does not indicate directly how the course will apply to meet requirements for specific programs of study. AZ Transfer Course Equivalency Guide

## (U.S.) AND INTERNATIONAL INSTITUTIONS

The Maricopa Community Colleges have transfer agreements with accredited U.S. universities and colleges as well as international institutions that have been approved by the Ministry of Education. These partnerships are formalized through District-wide memorandums of understanding and articulation agreements, and are designed to help students maximize the applicability of transfer credit at the transfer institution. To access a list of institutions with which Maricopa has established articulation agreements, visit: Maricopa University Partner List

## TIME LIMIT FOR TRANSFER COURSEWORK

Students should be aware other colleges and universities may have age of credit limits on certain coursework to be used in transfer. Students should refer to the policy of their intended transfer institution regarding time limits for transfer coursework.

## SHARED UNIQUE NUMBERING (SUN) SYSTEM COURSE INFORMATION

Senate bill 1186, which passed into law in 2010, mandated the creation of a shared numbering system for public college and university courses in Arizona to identify courses that transfer from community colleges to universities toward a baccalaureate degree. The Shared Unique Number (SUN) system is a college course numbering system designed to help students locate and enroll in courses that have direct equivalents for transfer among Arizona's public community colleges and three state universities. However, even if a course at the Maricopa Community Colleges is not designated as a SUN course, it may still transfer to other Arizona public institutions with a direct equivalent as per the course equivalency guide on AZTRANSFER.COM. The SUN system does not address the applicability of courses. Students are encouraged to work with an Academic Advisor on course selections. To access a list of SUN courses, visit SUN

AMENDED through the Administrative Regulation Process, June 12, 2023

## Scholastic Standards (AR 2.3)

### 2.3.1

## Academic Load

A credit hour is defined as an amount of work represented in course competencies and verified by evidence of student achievement that reasonably approximates not less than one hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester hour of credit, or the equivalent amount of work over a different amount of time, or at least an equivalent amount of work for other academic activities, including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours. In accordance with common practice in higher education, instruction representing a credit hour is typically delivered in a 50 -minute class period.

Students carrying at least twelve (12) credit hours will be considered full-time students for the fall and spring semesters. Three-quarter-time is 9-11.9 credit hours. Half-time is 6-8.9 credit hours. Fewer than six (6) credit hours is considered less than half-time. Academic load for summer and special terms may be defined differently. Contact the Admissions and Records Office/Office of Student Enrollment Services for clarification. As provided in the Reduced Course Load administrative regulation, a student may be deemed a full-time student carrying fewer than twelve credit hours pursuant to an accommodation of a disability.

Courses may vary in length, and begin and end throughout the year. A credit hour indicates the value of an academic credit. Standards for the awarding of credit hours may be time based or competency based. To obtain credit, a student must be properly registered and must pay fees for the course. The fall and spring semesters are typically sixteen (16) weeks in length. Summer sessions are typically five or eight weeks in length.

Students desiring to take more than eighteen (18) credit hours must obtain approval from the designated college official. Ordinarily, only students with a grade point average of 3.0 or higher for the preceding semester or first semester students who were in the upper quarter of their high school graduating class are permitted to carry more than eighteen (18) credit hours.

Students participating in extra-curricular or co-curricular activities or receiving financial assistance may be required to maintain a specified minimum academic load.

Students who are working, have considerable extra-curricular or co-curricular activities, or have been reinstated from academic suspension/probation should plan their academic load accordingly.

## Schedule Changes

Students may change their schedule by following the designated procedures at their college of enrollment. It is the student's responsibility to notify the college if he/she will no longer be attending the class (see Appendix S-6 for Withdrawal Procedures).

### 2.3.2

## Attendance

- Only persons who are registered for a class at any of the Maricopa Community Colleges may attend that class. Attendance requirements are determined by the course instructor. Students who do not meet the attendance requirement as determined by the course instructor may be withdrawn.
- Students who fail to attend the first scheduled class meeting, or to contact the instructor regarding absence before the first scheduled class meeting may, at the option of the instructor, be withdrawn.
- At the beginning of each course, each faculty member will provide students with written attendance requirements. It is the student's responsibility to consult with the instructor regarding official or unofficial absences. Absences begin to accumulate with the first scheduled class meeting.
- Students bear the responsibility of notifying the Admissions and Records Office/Office of Student Enrollment Services when they discontinue studies in a course or at the college.

1. Official Absences
A. Official absences are those that occur when students are involved in an official activity of the college, i.e., field trips, tournaments, athletic events, and present an official absence excuse form. Absences for such events shall not count against the number of absences allowed by an instructor or department. Students who must miss a class for an official reason must obtain an official absence verification card from the appropriate vice president or designee and present it to the appropriate instructor(s) before the absence. Prior arrangements must be made with each instructor for make-up work. If prior arrangements have been made, the student will not be penalized.
B. Other official absences include jury duty and subpoenas. Appropriate documentation will be required. Prior arrangements must be made with each instructor for makeup work. If prior arrangements have been made, the student will not be penalized.
C. In the event of military commitments. Absences for periods of up to one week will not be counted against the number of absences allowed by an instructor or department. The student is required to provide appropriate documentation of the specific orders, length of assignment and location. Prior notification must be initiated with each instructor to discuss makeup work. If the length of the absence will be longer than one week, the instructor and the student will determine whether there is sufficient opportunity for the student to make up the work. If it is determined that the length of absence for the military commitment provides an undue hardship on the student's ability to make up the assignments, he or she will be provided an opportunity to request an incomplete grade or drop the class or, in the case of open-entry classes, the opportunity to request an extension.
D. In the event of the death of an immediate family member, absences for periods of up to one week will not be counted against the number of absences allowed by an instructor or department. Students should contact instructor(s) as soon as possible to arrange for make-up work.
Appropriate documentation will be required (for example, a copy of the obituary or funeral program). In specialized programs that require clinical rotations, this regulation may not apply.

## 2. Religious Holidays

Students shall have the right to observe major religious holidays without penalty or reprisal by any administrator, faculty member or employee of the Maricopa Community Colleges. Absences for such holidays shall not count against the number of absences allowed by an instructor or department, provided the student has utilized the Religious Accommodation Procedure outlined in ND-4 of the Administrative Regulations Appendices. The Procedure and Religious Accommodation Form may be found at ND-4. As outlined in the ND-4 Religious Accommodation Procedure, to the extent possible, requests must be made at least two (2) weeks before the requested absence from class due to religious holiday or day of observance by providing the faculty member with the Religious Accommodation Request Form. Once a religious accommodation is granted, the student must make arrangements with each instructor for make-up work.

## 3. Excused Military Absences

A member of the National Guard of this state or any other state or of the United States Armed Forces Reserves who is a student at an institution of higher education in this state and who is ordered to either state or federal reserve component duty or a person who is the spouse of a member of the National Guard of this state or any other state or the United States Armed Forces Reserves, who is a student at an institution of higher education in this state and whose spouse is ordered to either state or federal reserve component duty, whether the member or spouse is attending class in person or online and whether the member is stationed in or outside of this state, may do any of the following:
A. Withdraw from one or more courses for which tuition and fees have been paid. The tuition and fees must be credited to the student's account at the institution. Any refunds are subject to the requirements of the state or federal financial aid programs of origin. The student may not receive credit for the courses and may not receive a failing grade, an incomplete or another negative annotation on the student's record and the student's grade point average may not be altered or affected in any manner because of the student's withdrawal under this subsection.
B. Depending on when the member is ordered to either state or federal reserve component duty and depending on the individual student's needs, receive a grade of incomplete and be allowed to complete the course if the course is being offered at the time to other students on release from reserve component duty under the institution's standard practice for completion of incompletes.
C. In accordance with any academic unit or institution of higher education requirements or in compliance with accreditation or certification standards, when applicable, continue and complete the course for full credit. Class sessions the student misses due to state or federal reserve component duty must be counted as excused absences and may not be used in any way to adversely impact the student's grade or standing in the class. Any student who selects this option is not automatically excused from completing assignments due during the period the student or student's spouse is performing state or federal reserve component duty. A letter grade or a grade of pass may be awarded only if the faculty member teaching the course determines that the student has completed a sufficient amount of work and has demonstrated sufficient progress toward meeting course requirements to justify the grade.
D. Withdraw and be readmitted with the same academic status and enrolled as a student at the institution, without penalty or redetermination of admission eligibility, within one year after the release of the student or student's spouse from state or federal reserve component duty.

1. A member of the National Guard of this state or any other state or of the United States Armed Forces Reserves who is a student at an institution of higher education in this state, who is ordered to either state or federal reserve component duty and as a result of that service or follow-up medical treatment for an injury incurred during that service, misses any test, examination, laboratory, presentation or class day on which a written or oral assignment is due or other event on which a course grade or evaluation is based may make up the test, examination, laboratory, presentation, class or event without prejudice to the final course grade or evaluation. The makeup activity must be scheduled after the student's return from reserve component duty and after a reasonable amount of time for the student to prepare for the test, examination, laboratory, presentation, class or event.
2. For class sessions a student described in subsection a of this section misses due to state or federal reserve component duty, the institution of higher education shall excuse the student's absences
and not use these excused absences in any way to adversely impact the student's grade or standing in class.
3. If the faculty member teaching the course determines that the student has completed a sufficient amount of work and has demonstrated sufficient progress toward meeting course requirements to justify the grade without making up the test, examination, laboratory, presentation, class or event, a grade may be awarded without the makeup activity and the missed test, examination, laboratory, presentation, class or event may not be used in any way to adversely impact the student's grade or standing in the class.
4. The protections in this section may be invoked as follows:
a. If the state or federal reserve component duty is known in advance, the student must submit evidence documenting the state or federal reserve component duty to the faculty member teaching the course early in the semester or as soon as practicable before the missed class, assignment or examination.
b. If the state or federal reserve component duty is not known in advance, the student is responsible for providing evidence of the state or federal reserve component duty to the faculty member teaching the course as soon as practicable after the missed class, assignment or examination.
c. The student or an appropriate officer from the military organization in which the student or student's spouse will be serving must give written notice that the student or student's spouse is being or has been ordered to reserve component duty as prescribed in this section.
d. On written request from the institution of higher education, the student shall provide written verification of service.
5. To readmit a person with the same academic status means that the institution admits the student to the same program to which the student was last admitted by the institution or, if that exact program is no longer offered, the program that is most similar to that program, unless the student requests or agrees to admission to a different program, per CFR 34668.18 (a)(2)(iii)(A).

### 2.3.3

## Grading

1. Policy

It is the policy of the Maricopa Community Colleges that a grade will be assigned at the conclusion of the course. Official grades are available on designated college web sites.

## GRADE KEY

| GRADE | GRALUES | CALCULATED | CONSIDERED <br> AN ATTEMPT REPEATED |
| :---: | :---: | :---: | :---: |


| A | $4.0-$ <br> EXCELLENT | YES | YES | NO |
| :---: | :---: | :---: | :---: | :---: |
| B | $\begin{aligned} & 3.0-\text { ABOVE } \\ & \text { AVERAGE } \end{aligned}$ | YES | YES | YES |
| C | 2.0-AVERAGE | YES | YES | YES |
| D | 1.0-BELOW AVERAGE | YES | YES | YES |
| F | 0.0-FAILING | YES | YES | YES |
| I | INCOMPLETE | NO | NO | N/A |
| IP | COURSE IN PROGRESS | NO | NO | N/A |
| N | AUDIT | NO | NO | N/A |
| W | WITHDRAWN, PASSING | NO | NO | N/A |
| Y | WITHDRAWN, FAILING | YES | YES | YES |
| P* | CREDIT | NO | YES | YES |

## GRADE VALUE CALCULATED IN GPA <br> CONSIDERED MAY BE <br> AN ATTEMPT REPEATED

Z NO CREDIT NO YES YES
*A "P" is judged to be equivalent to a grade of " C " or higher.
ATTEMPT DEFINITION: A student is enrolled in a class and receives a grade of A, B,C,D,F, Y, P, or Z.

Students who wish to attempt a course after the fourth time will need assistance from the Admissions \& Records/Enrollment Services Office to enroll.

If a student has been awarded financial aid, veterans benefits, or other military tuition assistance programs, scholarships, or grants they should check with those offices about repeating classes.

The student is responsible for any tuition and fees associated with each attempt.
NOTE: Grading errors discovered after the sixty (60) day expiration date can be corrected if they have been researched by the Director of A\&R/Enrollment Services and the Instructor of Record or the Department/Division Chair.

## 2. Incomplete Grade

1. Students who are doing acceptable work may request an incomplete grade "I" if they are unable to complete the course requirements by the end of the term because of illness or other extenuating circumstances. If the request is approved by the instructor, he or she shall define, in a written/electronic contract, how the course will be completed.
2. Students must complete the requirements within the time period agreed to--maximum time allowed is seven (7) months from the last date of class in which the grade of incomplete was assigned. Students who do not complete the requirements within the approved time period will have their grade recorded in accordance with the written contract. Students should NOT reregister for the course to complete the contract.
3. A student's eligibility for financial aid may be jeopardized by an incomplete grade. Refer to the Standards of Satisfactory Academic Progress for details.

## 3. Repeating a Course/Improving a Grade

Students who wish to improve their GPA may repeat a course within the

Maricopa Community Colleges up to three times after the initial attempt. (A "W" is not considered an attempt.) Students planning to repeat a course should seek advisement prior to enrolling. The lower grade(s) and credit for repeated courses taken at the same college will automatically be excluded from the grade point calculation. However, if the course(s) were taken at a different Maricopa Community College, the student must submit a request for the lower-graded course to be excluded from the GPA. The request can be submitted to the admissions and records office at any of the Maricopa Community Colleges that the student attended. Students receiving federal financial assistance and/or benefits should follow up with the Office of Financial Aid and/or Veterans' Services regarding their policies for repeated courses. An official student transcript is a permanent academic record issued by the College Registrar. It displays all courses taken for credit within the Maricopa Community Colleges District and includes all grades received. Unlike an unofficial transcript, it is signed and dated by the College Registrar and displays the college seal of the Maricopa College issuing the official transcript. Check individual courses and programs for exceptions.

## 4. Credit/No Credit Courses (P/Z)

1. Some courses may be taken under a credit/no credit grading system. These courses carry grades of P (credit, equivalent to a grade of C or higher) or Z (no credit) and are not computed in the student's grade point average. Credits earned with a grade of P may be counted toward graduation with the exception of AGEC (Arizona General Education Curriculum).
2. The prescribed time limits are for full-semester classes. Time limits for classes which meet fewer than sixteen (16) weeks are adjusted accordingly. See "Important Deadlines for Students".
3. In courses with credit/no credit ( $\mathrm{P} / \mathrm{Z}$ ) grading, the student may request standard grading (A, B, C, D, F), within fourteen (14) days including the date of the first-class meeting. The instructor must immediately notify the Admissions and Records Office/Office of Student Enrollment Services.
4. In courses with standard grading (A, B, C, D, F), the instructor determines if the credit/no credit option is available. If the option is available, the student must obtain the permission of the instructor. The instructor must notify the Admissions and Records Office/Office of Student Enrollment Services within fourteen (14) days including the day of the first-class meeting.
5. It is the student's responsibility to verify the transferability of credit/no credit courses. Some universities place a limitation on the number of credit/no credit courses that can be transferred.

Advisory note: Some institutions outside the Maricopa Community Colleges may translate the Z grade as failing.

## 5. Audit Courses

1. Auditors are those who enroll in a course for the sole purpose of obtaining information; they receive no credit, grades, homework, or tests. If an auditor wishes to earn credit, he or she must change from audit status to credit status within the first week. If a student wishes to audit a course for which he or she is enrolled for credit, the change must be made within the first five (5) weeks of a semester. Auditors are subject to the same attendance policies as other students and must meet the same prerequisite requirements or obtain approval of the instructor. See the fee schedule for charges. Financial aid is not available for audited courses.
2. The prescribed time limits are for full-semester classes. Time limits for classes which meet fewer than sixteen (16) weeks are adjusted accordingly and appear in the "Important Deadlines for Students".
3. Important Deadlines for Students

AMENDED through the Administrative Regulation Process, June 12, 2023

### 2.3.4

## Academic Standing, Warning, and Probation

Academic standing is defined by the student's GPA. The GPA is calculated by dividing the number of grade points earned in courses that assign letter grades by the number of credits attempted.

The purpose for the academic standing, warning and probation policies is to establish a formal process through which the faculty, staff, and administration at the Maricopa Community Colleges may identify and provide support to students who experience academic difficulty and fall below a cumulative grade point average (GPA) of 2.0. The combined cumulative GPA includes computation of grades for both Maricopa and posted transfer courses. It is not intended to discourage or penalize students. rather, this process reflects the commitment of the college's faculty, staff, and administration to provide students with assistance and support to ensure success in achieving their educational goals.

## Academic Good Standing

Students in academic good standing have a GPA of 2.0 or higher.

## Academic Warning

Students who do not achieve a minimum cumulative GPA of 2.0 after completion of their first term of study are placed on academic warning. If a student does not achieve the minimum cumulative GPA of 2.0 after one semester on academic warning, the student will be placed on probation for at least one additional term.

Academic Probation
If a student's minimum cumulative GPA falls below 2.0 in a term that is not the student's first term, the student will be placed on probation. Students on academic probation may take no more than twelve (12) credit hours per semester unless approved by a college counselor and the designated academic dean.

A student on academic probation who fails to raise the cumulative grade point average 2.0 will be placed on continued probation and may be limited to taking six (6) credit hours.

Students who receive an academic warning or who are placed on academic probation may be required to meet with an academic advisor or other designated intervention team members or engage in other intervention strategies prior to enrolling in courses to discuss an academic improvement plan which may include referrals to academic support, tutoring, and/or student support services to help them achieve good standing. Students using federal financial aid, VA education benefits, or active-duty tuition assistance should contact their financial aid office and veterans' services office to review possible impacts to their funding. See S-5 Student Financial Assistance.

Also See:

### 2.3.11 ACADEMIC MISCONDUCT

AMENDED through the Administrative Regulation Process, June 12, 2023

### 2.3.5

## Instructional Grievance Process

A student who feels that he or she has been treated unfairly or unjustly by a faculty member with regard to an academic process such as grading, testing, or assignments, has the right to appeal according to the approved procedures.
The appeal process for grades must be initiated no later than sixty (60) calendar days from the date the grade was issued. Steps outlining the process are available in Appendix S-6.

### 2.3.6

## Withdrawal

The Office of Admissions and Records/Office of Student Enrollment Services provides information about the withdrawal process. To withdraw from a course or courses from the college, students must follow approved procedures as outlined below. The official date of withdrawal is the date the withdrawal is received in the Admissions and Records Office/Office of Student Enrollment Services. Withdrawal from a course (or courses) does not automatically qualify for a refund of tuition and fees. Tuition and fee refunds will be calculated based on 2.2.10 Refund Policy or reviewed under the refund appeal process. Never attending is not an allowable refund exception or an excuse of the debt incurred through registration.

## TYPES OF WITHDRAWALS

STUDENT WITHDRAWAL: Is a change in the student's course schedule where one or more courses are withdrawn before the end of the term.

FACULTY WITHDRAWAL: Occurs when a faculty member withdraws a student.
COMPASSIONATE WITHDRAWAL: Is considered when a sudden emergency or severe change in personal circumstances, result in an inability to continue/complete courses. The student provides a written statement of their situation and any documentation to support this request if applicable (e.g. death certificate, accident report, etc.).

MEDICAL WITHDRAWAL: Is considered when there is an unexpected serious illness or injury that prevents the student from continuing with their course or courses. The medical withdrawal policy covers physical health and mental health difficulties.

All applications for compassionate and medical withdrawal that are submitted by the student, or on their behalf, require thorough and credible documentation. An approved medical/compassionate withdrawal request will result in a special note line indicating the nature of the withdrawal on the student's unofficial transcript. Medical and compassionate withdrawal applications and supporting documents are retained for at least five years and filed securely. If a request for refund has also been made, further assessment is done to determine eligibility.

LEAVE OF ABSENCE: Assists and encourages students to return and graduate after an absence due to military deployment, service on an official church mission, or with a foreign aid service of the federal government. If your absence is due to this or any
other reason, you may be eligible to return to a Maricopa College through a quick reentry process, which permits students to enroll without submitting a new application if they previously attended a Maricopa College. If the leave of absence is due to military commitments, students should also reference Administrative Regulation 2.2.3(3).

Withdrawing can have implications for certificate or degree completion, future registration, financial aid eligibility, and return of financial aid funds. In accordance with federal regulations (34CFR 668.22), a student may be required to repay federal financial aid funds if they completely withdraw or are withdrawn, or fail to earn a passing grade from all courses during a semester. This could affect a student's ability to receive financial aid in the future at Maricopa or any school.

Prior to submitting a request for any withdrawal or leave of absence, students are encouraged to meet with a college advisor about the potential impact related to the student's academic progress. Students using financial aid, VA education benefits, or active-duty tuition assistance should contact their Financial Aid and Veterans Services offices to review possible impacts to their funding.

## Withdrawal Procedures

## Withdrawal from Specific Courses

A student may officially withdraw from specific courses in the following ways:

- The prescribed time limits are for full semester courses. Time limits for courses which meet fewer than sixteen (16) weeks are adjusted accordingly. See important deadlines for students. Failure to file an official withdrawal form may result in failing grades and responsibility for course tuition and fees. Tuition and fee refunds will be processed based on the 2.2.10 Refund Policy.
- Through the 7th week*, a student may initiate an official withdrawal from any course by completing the withdrawal process online using the student selfservice system or by submitting a course withdrawal form to the Admissions and Records Office/Office of Student Enrollment Services in accordance with the published deadlines. A grade of W (withdrawn, passing - not computed in the grade point average) will be assigned.
- After the 7th week, a student must initiate a withdrawal request with the faculty member. If, after consultation with the student, the faculty member approves the request, a grade of W (withdrawn, passing - not computed in the grade point average) or Y (withdrawn, failing - computed in the grade point average as a
failing grade) will be assigned. If the request is not approved, the student will remain in the course.

A student has the right to appeal a withdrawal decision according to the approved procedures. Steps outlining the process are available in Appendix S-6.

## Complete Withdrawal from College

Students electing to withdraw from the college must contact the Admissions and Records Office/Office of Enrollment Services no later than two weeks* before the end of the last class meeting and may be required to file a written request.

A grade of W will be assigned in all courses for students who withdraw by the end of the 7th week* of classes. Withdrawals completed after this time will result in a grade of W (withdrawn, passing - not computed in the grade point average) or Y (withdrawn, failing - computed in the GPA as a failing grade).
*The prescribed time limits are for full semester classes. Time limits for classes which meet fewer than sixteen (16) weeks are adjusted accordingly. See Important Deadlines for Students. Failure to file an official withdrawal form may result in failing grades and responsibility for course tuition and fees. Refunds will only be processed within the refund period.

## Faculty Withdrawal Procedures

A faculty member has the option of withdrawing a student who has accumulated unofficial absences in excess of the number of times indicated in that faculty member's attendance policy in the course syllabus (see AR 2.3.2). A grade of W (withdrawn passing - not computed in GPA) or a grade of Y (withdrawn failing - 0 grade points per credit hour) may be assigned in accordance with the course syllabus.

Faculty members electing to withdraw students must record the withdrawal through the online system, including last date of attendance and withdrawal code. Students withdrawn for excessive absences may be reinstated only with the approval of the faculty member. Any impact on attendance that is protected by the exercise of students' rights under ADA/504, Title IX, Title VI, or other recognized law or policy
do not count as unexcused absences for the purposes of instructor-initiated withdrawals for lack of attendance/participation. Requests for withdrawals should be referred directly to the college of enrollment.

Also See: 2.2.10 Refund Policy

## AMENDED through the Administrative Regulation Process, June 12, 2023

### 2.3.7

## Academic Renewal ("Academic Forgiveness")

The Maricopa Community Colleges recognize that a student's academic record may contain grades that are not reflective of more recently demonstrated academic success. Academic renewal (or academic forgiveness) is defined as the process by which a student's previously recorded substandard credit coursework is excluded from the student's cumulative grade point average. Through this regulation, a student may request that grades and credits for all courses in which they earned a grade of D, F, or Y are disregarded from the cumulative GPA. Courses earned with a grade of A, B, and C will not be excluded and will be calculated into the GPA and total credits completed. A maximum of 24 credits taken at Maricopa are eligible to be disregarded under this policy. The academic renewal policy may be used only once and cannot be revoked once approved.

To apply for academic renewal the student must:

1. Complete the academic renewal request form, attaching unofficial transcripts.
2. Meet with academic advisor to discuss the petition, previous coursework, and educational plan.
3. Submit the completed form to the Admissions and Records/Enrollment Services Office.

Upon approval, courses with a grade of D, F, or Y will be annotated on the student's official transcript as excluded from the calculation of their cumulative GPA by academic renewal. All courses will remain on the student's permanent record to reflect an accurate academic history.

Academic renewal at one of the Maricopa Community Colleges does not guarantee that colleges outside the Maricopa Colleges will accept this action. Acceptance of the adjusted GPA (post academic renewal) is at the discretion of the receiving institution.

## Financial Aid/Veteran Benefits and Satisfactory Academic Progress (SAP)

The academic renewal policy can improve a student's GPA, while reducing their earned credit hours towards degree and certificate requirements, so students must be aware of all consequences before pursuing academic renewal. If interested in financial aid and/or veteran benefits, students are required to meet the financial aid standards of academic progress (SAP) as academic renewal does not replace or override the SAP requirement. Students should follow financial aid SAP appeal procedures outlined in section 2.9 Veteran Services satisfactory progress standards for regaining aid eligibility.

Additionally, students are encouraged to speak with the financial aid and the veteran services offices if they have questions about how fresh start may affect their aid and benefit eligibility. For More Information on SAP.

Also See:
2.3.4 Academic Standing, Warning, and Probation
2.3.6 Withdrawal (Medical/ Compassionate Withdrawal)

### 2.3.11 Academic Misconduct

## More on Financial Aid

AMENDED through the Administrative Regulation Process, June 12, 2023

### 2.3.8

## Honors Opportunities \& Recognition

## Honors Program

Each of the Maricopa Community Colleges has an honors program. Interested Students should contact the college Honors Coordinator for information about the program requirements and available scholarships, including the Chancellor's, Foundation's, President's Scholarships, and Honors Achievement Award.

## President's Honor List

The President's Honor List for each college consists of all students who complete twelve (12) or more credit hours in residence in courses numbered 100 or higher in a
given semester with a college semester grade point average of 3.75 or higher. This is a distinct acknowledgement of academic achievement not related to participation in the honors program.

## Graduation With Honors

See General Graduation Requirements (AR 2.3.9). This is a distinct acknowledgement of academic achievement tied to graduation. This is a distinct acknowledgement of academic achievement not related to participation in the honors program.

## AMENDED through the Administrative Regulation Process, June 12, 2023

### 2.3.9

## General Graduation Requirements

## Note: Also see Catalog Under Which a Student Graduates (AR 2.2.5)

Earning a Certificate or Degree
The Maricopa Community Colleges offers certificates and degrees in a variety of areas. Each certificate and degree has specified program requirements for graduation. See certificate and degree information for specific program requirements. It is the student's responsibility to be aware of these requirements.

Candidates for graduation must satisfy the following requirements:

- Complete the minimum number of credits required for the certificate or degree and residency requirements as follows:
- For Bachelor's degrees, at least 30 credits applicable to the degree must be completed at the awarding college.
- For Associate's degrees, at least 15 credits applicable to the degree must be completed at the awarding college.
- For certificates that are 15 or more credits, at least 6 credits applicable to the certificate must be completed at the awarding college.
- For certificates that are 14 or fewer credits, at least a quarter of the credits applicable to the certificate must be completed at the awarding college.
- All new to Maricopa students who declare a degree, or intend to transfer to a college/university, will be required to successfully complete a first-year experience course (FYE101 or FYE103) within the first two semesters at a MCCCD college.
- Meet the general education, program requirements, and electives for the certificate or degree required. Requirements can be satisfied by MCCCD coursework, prior learning assessment, and transfer credit. Transfer credit from outside of MCCCD or from Maricopa Community Colleges not awarding the degree or certificate and prior learning assessment does not count as hours in residence for graduation requirements.
- Earn a minimum grade point average (GPA) of 2.0 on a four-point grading scale in the coursework (100-level and above) used to satisfy degree or certificate requirements completed in residence and accepted in transfer) Some awards may specify additional GPA requirements.
- Remove all deficiencies (e.g. incomplete grades, missing transcripts, national test results, etc.) on the record to use those courses toward program completion.
- Fulfill any financial obligations with the college.
- File a Petition for Graduation with the Admissions, Records, \& Registration/Enrollment Services office with the exception of auto award programs as outlined further in this policy.
- The following information outlines the Maricopa Community College District standards for awarding certificates and degrees:
- Students can only earn one bachelor's degree of any type in the Maricopa Community Colleges
- Students can only earn one Associate of Arts (AA) with or without emphasis in the Maricopa Community Colleges
- Students can only earn one Associate of Arts, Elementary Education (AAEE) in the Maricopa Community Colleges
- Students can only earn one Associate of Business (ABUS) either General Requirements (GR) or Special Requirements (SR) in the Maricopa Community Colleges
- Students can only earn one Associate of Arts, Fine Arts (AAFA) with or without emphasis in the Maricopa Community Colleges
- Students can only earn one Associate of Science (AS) with or without emphasis in the Maricopa Community Colleges
- Students cannot earn Academic Certificates (AC), Certificates of Completion (CCL), Certificates of Competency (CCT), and Associate of Applied Science (AAS), and other certificate or degree types with the same academic plan code in the Maricopa Community Colleges
- Students cannot earn more than one type of AGEC (A, B, and S)

Appeals to this institutional policy may be considered prior to the admission process and/or petition to graduate. See the Admissions, Records, \& Registration/Enrollment Services office for a copy of the appeals process.

AutoAward Policy: MCCCD has an auto-award program that identifies some students who have completed a degree or certificate and never submitted a Petition for Graduation (e.g. Reverse Transfer). However, this program is limited and students should not depend on it for graduation. The Petition for Graduation should always be submitted when a student is intending to graduate.

## Maricopa Nursing Program

For the Maricopa Nursing program, the cumulative GPA for awarding purposes is calculated based on courses required for the degree or certificate taken at any Maricopa campus and includes pre-requisites, co-requisites, and nursing blocks. Students must apply for graduation from the college where they have successfully completed Block 4 of the Associate in Applied Science in Nursing.

## Graduation with Honors

All courses used to fulfill graduation and degree requirements, including courses from other institutions are used in the grade point average calculation (GPA) at graduation. Degree-seeking students who have distinguished themselves with GPAs 3.50 and higher are recognized with the following graduation honors:

- 3.50 to 3.69 graduation "with distinction"
- 3.70 to 3.89 graduation "with high distinction" 3.90 to 4.0 graduation "with highest distinction"

Certificate programs are not eligible for institutional honors.

## AMENDED through the Administrative Regulation Process, June 12, 2023

### 2.3.10

## Transcripts for Transfer

An official student transcript is a permanent academic record issued by the College Registrar. It displays all courses taken for credit within the Maricopa Community College District and includes all grades received. Unlike an unofficial transcript, it is signed and dated by the College Registrar and displays the college seal of the Maricopa College issuing the official transcript.
The transcript is issued upon written request only. Those students who want to transfer to other institutions of higher education, including other Maricopa
Community Colleges, must request their transcript be sent from the Admissions and Records Office/Office of Student Enrollment Services. However, transcripts may be shared within the Maricopa Community College District without the written request of the student in compliance with FERPA.
Official transcripts will not be issued to students having outstanding debts to any of the Maricopa Community Colleges. The release of transcripts is governed by the guidance of the Family Education Rights and Privacy Act of 1974 (see Records Policy in the Student Rights and Responsibilities section of this manual). There is no charge for unofficial transcripts, or for official transcripts sent between Maricopa Community Colleges. See the Tuition and Fee Schedule for charges for other official transcripts.

### 2.3.11

## Academic Misconduct

## 1. Definitions

A. Academic Misconduct - includes any conduct associated with the classroom, laboratory, or clinical learning process that is inconsistent with the published course competencies/objectives and/or academic standards for the course, program, department, or institution. Examples of academic misconduct include, but are not limited to: (a) cheating and plagiarism (including any assistance or collusion in such activities, or requests or offers to do so); (b) excessive absences; (c) use of abusive or profane language; and (d) disruptive behavior.
B. Cheating is any form of dishonesty in an academic exercise. It includes, but is not limited to, (a) use of any unauthorized assistance in taking quizzes, tests, examinations, or any other form of assessment whether or not the items are graded; (b) dependence upon the aid of sources beyond those authorized by the faculty member in writing papers, preparing reports, solving problems, or carrying out other assignments; (c) the
acquisition, without permission, of tests or other academic material belonging to or administered by the college or a member of the college faculty or staff; and (d) fabrication of data, facts, or information.
C. Plagiarism is a form of cheating in which a student falsely represents another person's work as his or her own - it includes, but is not limited to: (a) the use of paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgment; (b) unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials; and (c) information gathered from the internet and not properly identified.

## 2. Academic Consequences

Any student found by a faculty member to have committed academic misconduct may be subject to the following academic consequences, based on the faculty member's judgment of the student's academic performance Warning - A notice in writing to the student that the student has violated the academic standards as defined in 1.A.
Grade Adjustment - Lowering of a grade on a test, assignment, or course. Discretionary assignments - Additional academic assignments determined by the faculty member.

Course Failure - Failure of a student from a course where academic misconduct occurs.

## 3. Disciplinary Sanctions

A faculty member may remove a student from one (1) class meeting for disciplinary reasons. For involuntary removal from more than one (1) class period, the faculty member should invoke the procedures outlined in AR 2.5.2.

If the misconduct is sufficiently serious to warrant course failure, and if either (a) the failure results in a student being removed from an instructional program or
(b) the student refuses to accept responsibility for the misconduct and its academic consequences, the faculty member will, in addition to awarding the course grade, consult the department chair and the vice president of academic affairs as to whether institutional sanctions set forth below should be sought under AR 2.5. Regardless whether the student has accepted responsibility for academic consequences, in all cases of academic misconduct the faculty member may make recommendations for sanctions and may file a written complaint of misconduct. The vice president of academic affairs will serve as the student conduct administrator in all academic misconduct cases, and will
follow the procedure established in AR 2.5.2 to evaluate whether disciplinary sanctions are warranted. College probation, suspension, or expulsion will be imposed only by the vice president of academic affairs or designee, and only after the student has received the procedural rights provided in AR 2.5.2.
A. Disciplinary Probation - Disciplinary probation is for a designated period of time and includes the probability of more severe sanctions if the student commits additional acts of academic misconduct.
B. College Suspension - Separation of the student from the college for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified. (A suspension from one Maricopa Community College will apply to all other colleges/centers in the District.)
C. College Expulsion - Permanent separation of the student from the college. (Expulsion from one Maricopa Community College will apply to all colleges/centers in the District.)

## 4. Appeal of Sanctions and Consequences for Academic Misconduct.

Students can appeal academic consequences by following the instructional grievance process. (AR 2.3.5; Appendix S-6) Students may appeal disciplinary sanctions as provided in AR 2.5.2. If the student appeals through both processes, the instructional grievance process will be suspended until a final decision is reached in the student discipline procedure. In all cases in which financial aid has been adversely affected by academic consequences or disciplinary sanctions that are the subject of ongoing hearing or appeal proceedings, the student may appeal the financial aid determination on the grounds that a final decision has not been made. In such an event, a final decision on financial aid will not be made until after the final decision on consequences and/or sanctions.
2.3.12

## Non-Instructional Complaint Resolution Process

A student who feels that he or she has been treated unfairly or unjustly by any employee with regard to a non-instructional process such as a student or administrative services has the right to file a formal and written complaint according to the approved procedures. See Appendix S-8
2.3.13

## Course Substitutions

Course substitutions should only be made in a consistent and transparent manner, according to Administrative Regulation 2.2.4 (Transfer Credit and Prior Learning Assessment Policy), academic policies, and the following guidelines:

Students may seek to have course(s) requirements (including required courses, restricted electives, and prescribed general education requirements) in their declared bachelor's, associate in applied science or certificate program substituted.

Because a substituted course may not be accepted by a transfer institution or meet transfer degree requirements, no course substitutions are allowed in any of the required course areas of the associate in arts or associate in science degrees with emphasis, Associate In Business - Gr, Associate Of Business - Sr, Associate In Arts, Elementary Education, or the Associate In Arts, Fine Arts.

The course being used as a substitution must meet the content and/or spirit of the substituted course in the student's pathway plan (or for date status petitions by reason of disability). If the pathway course satisfies an Arizona General Education Curriculum (AGEC-A, B, or S) requirement, the course substitution must meet that same requirement. Considerations for substitutions should also include impact to satisfying transfer pathway, industry requirements. Substituted courses should provide the skills and knowledge specified by the pathway learning outcomes.

Course substitutions should not be processed for students who have earned fewer than 15 credits (at Maricopa or elsewhere).

To pursue a course substitution, students must obtain a course substitution petition from the Admissions and Records office or Academic Advisor. Substitutions must be approved by the Program Department Chair, Program Division Chair, Academic/Occupational Program Director, or designee and the appropriate Instructional Dean. The Department Chair, Division Chair, or Academic/Occupational Program Director will work with other departments as needed for courses outside of the discipline.

If the credits of a substituted course are fewer than the original requirement, the missing credit hours are not granted by a substitution. Students must complete the minimum credit hours required by the award.

Students are encouraged to seek substitutions prior to enrollment in an intended substitute course. Requests for course substitutions and supporting documentation should be submitted as soon as possible when transcripts are reviewed. For assistance, students should meet with an Academic Advisor specific to the declared transfer emphasis. Students seeking Title IV financial aid and veteran benefits for a course substitution must have the substitution approved and processed prior to registering for the substitute course.

See also, Administrative Regulation 3.5 Course Substitution for Students With Documented Disabilities.

AMENDED through the Administrative Regulation Process, June 12, 2023

## College Environment (AR 2.4)

### 2.4.1

## General Statement

The Maricopa Community Colleges are dedicated to providing a healthy, comfortable and educationally productive environment for students, employees and visitors.

### 2.4.2

## Nondiscrimination

See the EEO/AA Section of the Administrative Regulations.

### 2.4.3

## Equal Opportunity Statement

See the EEO/AA Section of the Administrative Regulations.

### 2.4.5

## Copyright Act Compliance

Students are expected to comply with the provisions of the Copyright Act of 1976 pertaining to photocopying of printed materials, copying of computer software and videotaping. In order to assist students in complying with the Copyright Law, appropriate notices shall be placed on or near all equipment capable of duplicating copyrighted materials.

1. Copyright Policy

See the INSTRUCTION Section of the Administrative Regulations.
2. Taping of Faculty Lectures

See the INSTRUCTION Section of the Administrative Regulations.
3. What Students Should Know About Copyright (Online Brochure)

### 2.4.6

## Emissions Control Compliance

Pursuant to ARS §15-1444 C. no vehicle shall be allowed to park in any college parking lot unless it complies with ARS §49-542 (the annual vehicle emissions inspection program). At the time of course registration, every out-of-county and out-of-state student will be required to sign an affidavit stating that the student's vehicle meets the requirements of ARS $\S 49-542$. Vehicles that are not in compliance are subject to being towed at the owner's expense.

### 2.4.7

## Abuse-Free Environment

See also the Auxiliary Services section for Tobacco-Free Environment and the Appendices/Student Section Medical Marijuana Act of the Administrative Regulations.

1. Substance Abuse/Misuse Statement

Drug abuse and misuse has become a national issue and is receiving national attention, particularly in the academic community. The insidious effects of the abuse of these agents are also felt by all walks of life and economic levels. Therefore, as an education providing institution, we are responsible to provide knowledge and guidelines about prevention, control, and treatment of the abuse/misuse of alcohol, illegal and legal drug uses and misuses. Annual Acknowledgements for students and employees are provided through the online messaging accounts. Students who experiment with drugs, alcohol, and illegal substances or use them recreationally may develop a pattern of use that leads to abuse and addiction. Maricopa Community Colleges recognized drug and alcohol abuse as an illness and a major health problem as well as a potential safety and security issue. Part of the educational mission of the Maricopa Community Colleges is to educate students about positive self-development, the benefits of a healthy lifestyle and the health risks associated with substance abuse. This mission closely aligns with the Drug-Free School and Communities Act of 1989, and other relevant substance abuse laws.
2. Student Program to Prevent Illicit Use of Drugs and Abuse of Alcohol

The Maricopa Community College District fully supports disciplinary action for misconduct and the enforcement of state laws governing the use of alcohol and the use, abuse, possession or distribution of controlled substances or illegal drugs.
A. Introduction and Purpose

The Federal Drug-Free Schools and Communities Act of 1989 (Public Law 101226) requires federal contractors and grantees to certify that they will provide a drug-free school. As a recipient of federal grants, the District must adopt a program toward accomplishing this goal. While federal legislation has been the impetus for creation of the program, the administration and Governing Board recognize that substance abuse is a problem of national proportions that also affect students at the Maricopa Community Colleges.
The Maricopa Community Colleges are committed to maintaining learning environments that enhance the full benefits of a student's educational experience.
The Maricopa County Community College District will make every effort to provide students with optimal conditions for learning that are free of the problems associated with the unauthorized use and abuse of alcohol and drugs.
B. Standards of Conduct

In the student handbooks of the Maricopa Community Colleges under codes of conduct, the following are examples of behavior that is prohibited by law and/or college rules and policies:
i. Drinking or possession of alcoholic beverages on the college campus.
ii. Misuse of narcotics or drugs.
C. Sanctions for Violation of Standards of Conduct

Disciplinary actions include, but are not limited to:
i. Warning,
ii. Loss of privileges,
iii. Suspension, or
iv. Expulsion.
D. Legal Sanctions

1. Local, state, and federal law prohibit the unlawful possession, use or distribution of illicit drugs and alcohol. Conviction for violating these laws can lead to imprisonment, fines, probation, and/or assigned community service. Persons convicted of a drug-and/or alcohol related offense will be ineligible to receive federally funded or subsidized grants, loans, scholarships, or employment.

Any employee is subject to disciplinary action, up to and including employment termination, for any of the following: reporting to work under the influence of alcohol and/or illegal drugs or narcotics; the use, sale, dispensing, or possession of alcohol and/or illegal drugs or narcotics on MCCCD premises, while conducting MCCCD business, or at any time which would interfere with the effective conduct of the employee's work for the MCCCD; and use of illegal drugs.

## 3. MCCCD Program Standards

The Maricopa Community College District is committed to establishing a preventative substance abuse program at Each college designed to affect positively the problems of irresponsible use of alcohol and the use and abuse of illegal substances. A main focus of the program will be on education of the campus community and assistance to individuals.
A. Identify a key individual, at each college, to provide emergency services and/or to contact and work with outside agencies that provide drug and alcohol counseling, treatment or rehabilitation programs that may be available to students and employees.
B. Support disciplinary action for misconduct and the enforcement of state laws governing the use of alcohol and the use, abuse, possession or distribution of controlled substances or illegal drugs.
C. Establish a preventative substance abuse program at each college designed to affect positively the problems of irresponsible use of alcohol and the use and abuse of illegal substances

## 4. Use of Alcoholic Beverages

See Section 4.13 of the Administrative Regulations

## 5. Other Health Concerns

General Guidelines Concerning AIDS
Neither a diagnosis of AIDS nor a positive HIV antibody test will be part of the initial admission decision for those applying to attend any of the Maricopa Community Colleges. The Maricopa Community Colleges will not require screening of students for antibody to HIV.

Students with AIDS or a positive HIV antibody test will not be restricted from access to student unions, theaters, cafeterias, snack bars, gymnasiums, swimming pools, recreational facilities, restrooms, or other common areas, as there is not current medical justification for doing so.

Where academically and logistically feasible, students who have medical conditions, including AIDS, may seek accommodation in order to remain enrolled. Medical documentation will be needed to support requests for accommodation through the Office of Disabled Resources and Services or the Office of Vice President of Student Affairs.

The Maricopa Community Colleges acknowledge the importance of privacy considerations with regard to persons with AIDS. The number of people who are aware of the existence and/or identity of students who have AIDS or a positive HIV antibody test should be kept to a minimum. When a student confides in a faculty member, knowledge of the condition should be transmitted to the appropriate vice president or designee who will make the determination if the information should be further disseminated. It should be remembered that mere exposure to the person in a classroom does not constitute a need to know the diagnosis. It is, therefore, unnecessary to document in a student's file the fact that he or she has AIDS unless the information is to be used for accommodation reasons. Sharing confidential information without consent may create legal liability.

Students are encouraged to contact the Office of Disabled Resources and Services and/or the vice president of student affairs or designee for the types of services available in the district or community on matters regarding AIDS or the HIV virus.

### 2.4.8

## Petition Signature Solicitation

1. This regulation shall govern access to college premises by representatives who wish to solicit signatures on petitions for the purpose of submission of a ballot proposition to voters, or nomination of a candidate for elective office, in a city-, county-, or state-wide election.
2. Each college president shall designate general hours of accessibility for solicitation and a location on college premises where all representatives on behalf of any candidate or ballot proposition may solicit signatures. The location shall be in a common area where the solicitation will not serve as an obstruction to student activities or otherwise disrupt the college environment.
3. All solicitation must take place in designated areas. Standard space may include one or two tables and chairs. Campus restrictions regarding amplification will apply. Representatives may not distribute or make available to students, employees, or college visitors any tangible item, except for informational literature about the proposed candidate or ballot initiative.
4. Representatives shall notify the designated official at each college or center for their intent to be present on college premises no fewer than three working days prior to soliciting signatures. Upon obtaining authorization, representatives shall be provided a written version of this regulation.

Specific procedures on how to implement the Petition Signature regulation can be found in appendix S-14.

### 2.4.9

## Use of College Grounds by Non-MCCCD-Affiliated Users

In contrast to traditional public forums such as a public square, park, or right of way, Maricopa's campuses are dedicated by law to the purpose of formal education. They are, and have been since their creation, for the use and benefit of prospective and enrolled students, the Maricopa employees who serve them, and those who are invited to campus by members of the College community to attend or participate in sponsored events. The Maricopa County Community College District (MCCCD) has a long history of regulating the time, place, and manner in which expressive activities are conducted on campuses, for the purposes of avoiding disruption or interference with its educational activities, and protecting the rights of the members of the campus community and their invited guests to express themselves and access information. While members of the general community always have been welcome to share their ideas with the campus community, they are subject to reasonable, content-neutral regulation of the time, place and manner of the event and to the institution's mission-based priorities - including but not limited to the need to provide an environment conducive to teaching and learning.

## POLICY

This administrative regulation governs use of the college grounds, defined as the open areas and walkways of the campus by non-MCCCD-affiliated users. Use of college facilities is governed by a separate administrative regulation. Parking lots are not available for events and activities other than those sponsored and authorized by the College president.
Camping is not permitted anywhere on the campuses. Camping is defined as the use of college grounds or facilities for living accommodations or housing purposes such as overnight sleeping or making preparations for overnight sleeping (including the laying down of bedding for the purpose of sleeping), the making of any fire for cooking, lighting or warmth, or the erection or use of tents, motor vehicles, or other structures for living or shelter. These activities constitute camping when it reasonably appears, in light of all the circumstances, the participants conducting these activities intend to use or are using the facilities or grounds for living accommodations or housing, regardless of the duration or other purpose of the use.
Lawful use of college grounds for events or expressive activities by individuals, groups, and organizations may be authorized by college officials when the events and activities are lawful and consistent with the non-profit, educational nature of the campus, authorized and conducted in accordance with MCCCD policies, administrative regulations and priorities, and compliant with reasonable restrictions as to time, place, and manner. The content of the expression will not be a factor in authorizing, locating, or scheduling decisions. However, events and activities will not be permitted to disrupt or obstruct the teaching, research, or administrative functioning of the College by means of physical obstacles and crowds, by the creation of sound or noise that would interfere with teaching, learning, and the conduct of College business, or by any other means. Each College president will designate a Responsible College Official with delegable authority to approve, locate, and schedule use of college grounds.

## Permit Application:

Any non-MCCCD-affiliated organization, group, or individual desiring to use campus grounds for an event or activity must submit a request form to the Responsible College Official in advance of the use date.
If the activities proposed in the application are limited to low-impact, non-commercial activities the request form shall be submitted at least two business days in advance of the expected use date. For purposes of this administrative regulation, "low-impact, non-commercial activities" are defined as: (1) activities that do not seek to sell or promote a product or service for direct or indirect financial gain; (2) activities that are limited to gatherings of five people or less at any given time; and (3) activities that do not involve machinery, temporary structures, tables, chairs, displays or electronic equipment, including amplifiers, or the distribution of food products. For events that are not low-impact, non-commercial activities, the request form shall be submitted at least seven business days before the expected use. The additional advance time is required to allow the College to prepare for conditions that may affect the flow of foot traffic, involve signs and displays, create crowds, involve significant numbers of participants, or require the use of significant amounts of space and/or use of equipment and resources.

## Designated Areas:

Because each College has a limited amount of outdoor space, activities and events sponsored by non-MCCCD-affiliated users, including speech and literature distribution, shall be restricted to designated areas. For each College, the Responsible College Official shall establish specific designated areas for such activities. A written description of these areas shall be maintained at the office of Student Life and Leadership for each College. Consistent with the goal of providing a healthy, comfortable, and educationally productive environment, the Responsible College Official should attempt to locate the designated areas in prominent locations on campus where there is a likelihood of significant pedestrian traffic. The designated areas shall not be located in building stairways and entryways, parking lots, or congested areas. The Responsible College Official will make every effort to assign users to their requested space when a specific space is desired. However, in order to ensure the potential success of all scheduled events, the College reserves the right to assign an event or activity to the area the College deems most appropriate in light of the campus capacity, other activities scheduled, and the type of event or activity being planned.

## Use Fees and Proof of Insurance:

To offset the costs associated with the use of college grounds, non-MCCCD-affiliated users shall be required to pay a fee of $\$ 50$ per day or $\$ 125$ per week. In order to protect the health and safety of College students, faculty and staff and to protect MCCCD resources, non-MCCCD-affiliated users shall also be required to provide proof of insurance that indicates at least $\$ 1$ million in general liability coverage and names the MCCCD as an additional insured for the anticipated use date.

The fee and proof-of-insurance provisions of this Administrative Regulation shall not be applied to low-impact, non-commercial users. A user may request designation as a low-impact, noncommercial user from the applicable College's Responsible College Official. Any questions or comments about the criteria for approval or denial of such request shall be directed to the District Ombudsman.

## Permits:

The approved request form will describe the location of the authorized activity and any other restrictions specific to the event. Violation of the terms of the permit, District policy, administrative regulation or law shall be grounds for immediate revocation of the permit, and the individual violators and their organizations may be banned from the campus.

## Priorities and Criteria for Approval of Permits:

The content or subject of the proposed expressive activity or event will not affect approval of the application. Availability of space is not guaranteed. Reservations shall be approved on a spaceavailable basis and will be addressed on a first come-first served basis, subject to the following priorities and criteria for the use and scheduling of space on campus grounds:
Scheduling Priorities (in order)

1. The use of facilities and grounds for the operations of the College. For example, there are times when the college is unusually crowded by members of the campus community, such as registration and orientation at the beginning of the semester. Other uses may reasonably be precluded during those times.
2. Activities and events sponsored by the College administration.
3. Activities and events sponsored by MCCCD student organizations or employee groups.
4. Activities of non-MCCCD-affiliated individuals and organizations.
5. Commercial advertising or activities.

Criteria

1. Capacity of college grounds to accommodate the number of participants at the scheduled time and proposed location.
2. Capacity of College Safety staff to provide security for all events and activities scheduled at the time.
3. Possible interference or conflict with College operations or other scheduled activities and events on the grounds.
4. General feasibility of hosting the event as proposed.

## Other Policies:

This administrative regulation will be applied in conjunction and coordination with all other MCCCD policies and administrative regulations and College processes and procedures, including but not limited to regulations on facilities use, signage, sales of alcohol and/or food, and solicitation of donations.
Specific procedures on how to implement the Use of College Grounds regulation can be found in Appendix S-15.

### 2.4.10

## Children on Campus

Children (younger than 18) may not attend any class unless they are officially registered for the class.
Children will not be allowed on campus unless participating in an authorized college program or under the supervision of an adult.

### 2.4.11

## Crime Awareness and Campus Security Act

Federal legislation requires the college to maintain data on the types and number of crimes on college property as well as policies dealing with campus security. To obtain additional information on this subject, contact the college Safety and Security Department.

### 2.4.12

## Workplace Violence Prevention Purpose

It is the policy of the Maricopa County Community College District to promote a safe environment for its employees, students, contractors, and visitors. MCCCD is committed to working with its employees to maintain an environment free from violence, threats of violence, harassment, intimidation, and other disruptive behavior.

## Policy

Violence, threats, harassment, intimidation, and other disruptive behavior in our facilities is prohibited and will not be tolerated. It is the responsibility of all employees, students, contractors, and visitors of MCCCD to report any occurrence of such conduct to MCCCD Public Safety. Every employee, student, contractor, and visitor on MCCCD property should report threats or acts of physical violence and acts of harassment, intimidation, and other disruptive behavior of which he/she is aware. All reports will be taken seriously and will be investigated by public safety immediately in order to protect everyone from danger. Such behavior can include oral or written statements, gestures, or expressions that communicate a direct or indirect threat of physical harm.

## Prohibited Behavior

For example, and without limiting the generality of the foregoing statement, this policy prohibits:

- direct threats or physical intimidation
- implications or suggestions of violence
- stalking
- assault of any form
- physical restraint, confinement
- dangerous or threatening horseplay
- loud, disruptive, or angry behavior or language that is clearly not part of the typical work environment
- blatant or intentional disregard for the safety or well-being of others
- commission of a violent felony or misdemeanor on MCCCD property
- abuse
- violation of a protective order or restraining order
- any other act that a reasonable person would perceive as constituting a threat of violence This list is illustrative only and not exhaustive.


## Future Violence

Employees, students, and visitors who have reason to believe they, or others, may be victimized by a violent act or sometime in the future, at the workplace or as a direct result of their relationship with MCCCD, shall inform a supervisor or manager as soon as possible. The supervisor or manager shall inform the Public Safety Department. Students, contractors, and visitors shall contact the Public Safety Department as soon as possible.
Employees who have signed and filed a restraining order, temporary or permanent, against an individual due to a potential act of violence, who would be in violation of the order by coming
near them at work, shall immediately supply a copy to the Department Director, Human Resources, and Public Safety. Students shall supply a copy of the signed order to the Public Safety Department.

This policy applies to employees and students, as well as independent contractors and other nonemployees doing business with the MCCCD. Individuals who commit such acts may be removed from the premises and may be subject to disciplinary action, criminal penalties, or both. The Chancellor is hereby instructed to enact all administrative regulations necessary to implement this policy.

### 2.4.13

## Student Right to Know

Under the terms of the Student Right To Know Act, the college must maintain and report statistics on the number of students receiving athletically related student aid reported by race and sex, the graduation rate for athletes participating in specific sports reported by race and sex, the graduation rate for students in general, reported by race and sex and other similar statistics. To obtain copies of these reports, contact the Office of Admissions and Records.

### 2.4.14

## Use of College Grounds by Affiliated Users Introduction

The colleges of the Maricopa County Community College District ("MCCCD") are dedicated by law to the purpose of formal education. They are, and have been since their creation, for the educational use and benefit of prospective and enrolled students, the MCCCD employees who serve them, and those who are invited on location by members of the college community to attend or participate in sponsored events. The MCCCD has a long history of supporting expressive activities that are conducted on campuses. For the purposes of avoiding disruption or interference with its educational activities, while protecting the rights of the members of the campus community and their invited guests to express themselves and access information, this administrative regulation governs the use of college grounds by Affiliated Users (as defined in Section 1) for Expressive Activity. Expressive Activity is defined as:

- Meetings and other group activities by registered students and student organizations
- Non-commercial speeches, performances, demonstrations, rallies, vigils and other events that are organized by students or student clubs and organizations-
- Non-commercial leafleting and pamphleting
- Any other student expression that is protected by the First Amendment to the U.S. Constitution
Outdoor campus areas are venues for free expression by Affiliated Users, including speeches, demonstrations, and the distribution of literature, subject to the reasonable time, place and manner restrictions set forth in this regulation.
This regulation will be administered in a manner that is content and viewpoint neutral and seeks to protect the free expression of ideas.


## 1. Definitions

## a. MCCCD Affiliated Users

Affiliated Users are: 1) individuals employed by MCCCD except when engaging in a commercial activity; 2 ) individuals contracted by MCCCD who are acting on behalf of or for MCCCD purposes; 3) individuals enrolled via the registrar as students within the MCCCD system; and 4) external entities and/or individuals invited by student clubs and organizations to participate on behalf of the club or organization in an event that is related to the club or organization's purpose.
b. Non-Affiliated Users

Non-Affiliated Users are organizations, groups or individuals that are not Affiliated Users. Use of MCCCD grounds or facilities by Non-Affiliated Users is governed by Administrative Regulations 1.5 and 2.4.9.
c. Substantial Interference

Substantial Interference includes, but is not limited to, activity that: 1) disrupts instruction, lecture, studying or other academic pursuits; 2) disrupts MCCCD administrative activities; 3) blocks access to buildings or structures; 4) obstructs passageways for vehicles or pedestrians; 5) disrupts previously scheduled events; 6) impairs the health and safety of the college community; 7) is unlawful; and/or 8) otherwise presents a threat to public safety. The mere potential for Substantial Interference is not sufficient to prohibit or limit Expressive Activity. Instead, it must be reasonably determined that the activity presents a significant likelihood of creating Substantial Interference before Expressive Activity may be prohibited or limited in accordance with this regulation.
d. Planned Expressive Activity

Planned Expressive Activity is when participants seek to reserve space for an established point in time and/or use tables, chairs, amplification or other audio-visual equipment and/or temporary structures such as tents or awnings.

## 2. Reservation of Campus Space for Planned Expressive Activity

Affiliated Users may reserve outdoor and indoor campus space, as defined below, for Planned Expressive Activity. Reservations are to be made through the respective college's Office of Student Life and Leadership no less than one business day before the activity is intended to occur. Such reservations will be approved on a first come, first served basis unless the Office of Student Life and Leadership determines, without regard to the content of the proposed Expressive Activity, that the activity constitutes

Substantial Interference. If the Office of Student Life and Leadership determines an Expressive Activity constitutes Substantial Interference it will work with the Affiliated User in an effort to find an alternative, if any exists, that allows the Expressive Activity to occur without such interference.
a. Outdoor Space - outdoor space available for reservation by Affiliated Users does not include: parking lots, athletic facilities, meditation or peace gardens, areas designated as outdoor study zones, and child care facilities.
b. Indoor Space - indoor space is available for reservation by Affiliated Users if the space is determined by the college to be a common area that is publicly accessible. Buildings, housing, classrooms and/or administrative offices are not available for reservation.
3. Spontaneous Expression

MCCCD recognizes that Expressive Activity may occur in both structured and organic forms. Spontaneous expression by Affiliated Users may be undertaken in outdoor or indoor space, as defined above, without prior reservation as long as the activity does not constitute Substantial Interference.

### 2.4.15

Campus Sex Crimes Prevention Act
Federal legislation requires that the MCCCD establish notification procedures concerning the presence of registered sex offenders enrolled either as students or those working for the institution. The Registered Sex Offender Notification Procedure is outlined in Appendix item S18.

## Student Rights and Responsibilities (AR 2.5)

2.5.1

## Conduct Standards and Authority

Disciplinary Probation and Suspension Standards
According to the laws of the State of Arizona, jurisdiction and control over the Maricopa County Community College District (MCCCD) are vested in the MCCCD Governing Board. The MCCCD Governing Board and its agents-the Chancellor, administration, and employees are granted authority to regulate student behavior subject to basic standards of reasonableness.

In developing responsible student conduct, the MCCCD prefers mediation, guidance, and admonition. However, when these means fail to resolve problems of student conduct and responsibility, appropriate disciplinary procedures will be followed. The MCCCD reserves the right to levy discipline rather than attempt mediation and guidance, based on the severity of the conduct.

### 2.5.2

## Student Conduct Code

The purpose of this Student Code of Conduct is to help ensure a productive and safe environment for students, employees, and visitors. This conduct code is not a stand-alone policy. This code is
subject to the provisions outlined in AR 5.1.16, generally known as the Title IX policy, and AR 6.24, generally known as the Free Expression policy, and AR 5.1, generally known as the NonDiscrimination policy. There are other policies that may intersect with other administrative regulations.

## Article I: Definitions

The following are definitions of terms or phrases contained within this Code:

1. "College" means a Maricopa County Community College District (MCCCD) College or center/site.
2. "College premises" means all land, buildings, facilities and other property in the possession of or owned, used, or substantially controlled by the college or MCCCD.
3. "College official" means any person employed by the college or MCCCD, performing assigned administrative or professional responsibilities pursuant to this Student Conduct Code. The college President shall designate the college/center official who is responsible for the administration of the Student Conduct Code.
4. "Complainant" means any person who submits a complaint alleging that a student violated this Student Conduct Code. When a student believes they have been a victim of another student's misconduct, the student who believes they have been a victim will have the same rights under this Student Conduct Code as are provided to the Complainant, even if another member of the college community submitted the complaint itself.
5. "Day" means business day when college is in session, and shall exclude weekends and college/MCCCD holidays.
6. "Disruptive behavior" means conduct that materially and substantially interferes with or obstructs the teaching or learning process in the context of a classroom or educational setting/ facility, which includes educational or professional internships, clinical placements, or other experiential learning opportunities. Disruptive behavior also includes conduct that materially interferes with or obstructs college business operation.
7. "District" means the Maricopa County Community College District (MCCCD).
8. "Faculty member" means any person hired by the college or MCCCD to conduct classroom or teaching activities or who is otherwise considered by the college to be a member of the faculty in credit / non-credit courses and clock hour courses and programs.
9. "Member of the college community" means any person who is a student, faculty member, college official, or any other person employed by the college or center/site. A person's status in a particular situation shall be determined by the college President.
10. "Organization" means any number of persons who have complied with the formal requirements for college recognition.
11. "Policy" is defined as the written regulations of the college and/or MCCCD as found in, but not limited to, this Student Conduct Code and MCCCD Governing Board policy.
12. "Respondent" means any student accused of violating MCCCD's Student Conduct Code. Respondents enjoy the presumption of innocence until such time as the Respondent is adjudicated to have violated the Student Conduct Code.
13. "Student" means any individual who is currently admitted or registered in credit or noncredit college programs on a full or part time basis, or who participates in a college function (such as orientation, in anticipation of enrollment) or who was enrolled in the immediate previous term or is registered for a future term, including college employees so admitted, registered, or enrolled.
14. "Student Conduct Administrator" means a college official authorized by the college official responsible for administration of the Student Conduct Code to impose sanctions upon students found to have violated this Student Conduct Code.
15. "Threatening behavior" means any written or oral statement, communication, conduct or gesture directed toward any member of the college community, which causes a reasonable apprehension of physical harm to self, others, or property. It does not matter whether the person communicating the threat has the ability to carry it out, or whether the threat is made on a present, conditional, or future basis.

## Article II: Judicial Authority

1. Decisions made by a Student Conduct Administrator shall be final, pending the normal appeal process.
2. Matters pertaining to sexual harassment must always be referred first to the college Title IX Coordinator for review under AR 5.1.16. Conduct that does not meet the definition of sexual harassment as outlined in AR 5.1.16, or otherwise do not meet the definition of an educational program or activity, do not occur against a person within the United States, or are otherwise dismissed either under the mandatory or discretionary dismissal provisions will be referred by the Title IX Coordinator back to the college's respective Student Conduct Administrator for investigation and adjudication under the Student Conduct Code.

## Article III: Prohibited Conduct

## 1. Jurisdiction

The Student Conduct Code shall apply to conduct that occurs on any college or MCCCD premises, or at any center/site or MCCCD-sponsored event or activity that adversely affects the college community and/or the pursuit of its objectives.
A. Jurisdiction may be applied against student behavior conducted online, via email, or other electronic medium provided that it meets the criteria listed above. Further, jurisdiction under this policy applies to any person who is currently admitted or in credit or non-credit college programs or who participates in a college function (such as orientation, in anticipation of enrollment) or who was enrolled in the immediate previous term or is registered for a future term, including college employees so admitted, registered, or enrolled.
B. The Student Conduct Code shall apply to a student's conduct even if the student withdraws from school while a disciplinary matter is pending.

## 2. Title IX Sexual Harassment

Matters pertaining to sexual harassment/misconduct that do not meet the definition of sexual harassment as outlined in Administrative Regulation 5.1.16 or otherwise do not meet the definition of an educational program or activity and do not occur against a person within the United States will be referred by the Title IX Coordinator to the college's respective Student Conduct Administrator for investigation and adjudication under the Student Conduct Code.
3. Disruptive Behavior In Class (Temporary Removal of Student)

Disruptive behavior includes conduct that distracts or intimidates others in a manner that interferes with instructional activities, fails to adhere to a faculty member's appropriate classroom rules or instructions, or interferes with the normal operations of the college. Students who engage in disruptive behavior or threatening behavior may be directed by the faculty member to leave the classroom or by the college official responsible for administration of the Student Conduct Code to leave the college premises. (Academic Misconduct AR 2.3.11). If the student refuses to leave after being requested to do so, college police may be summoned to provide assistance. For involuntary removal from more than one (1) class period, the faculty member should invoke the procedures outlined below.

## 4. Conduct - Rules and Regulations

Any student found to have committed the following misconduct is subject to the disciplinary sanctions outlined in Article IV:
A. Acts of dishonesty, including but not limited to the following:
i. Knowingly furnishing false information to any college official or officer (including filing a false report or complaint), including during an official investigation (i.e. Title IX, conduct, or campus police investigation).
ii. Forgery, alteration or misuse of any college document, record or instrument of identification, even if there is no reliance on the forged or altered document in the posting of grades or other academic/financial benefit.
iii. Tampering with the election of any college- recognized student organization.
iv. Financial aid fraud or corresponding behaviors that would allow a student to receive a monetary benefit for which they are not eligible.
v. Misrepresentation of one's identity (see also Identity Theft Red Flag and Security Incident Reporting AR 6.11).
vi. Misuse of the colleges copyrighted content and trademark (Copyright Act Compliance AR 2.4.5).
vii. Knowingly filing a false report (Title IX, conduct, or campus police investigation) to a college official or campus police.
B. Obstruction or disruption of teaching, research, administration, disciplinary proceedings or other college activities, including its public service functions on campus, in clinical settings or other authorized non-college activities.
C. Conduct that intentionally or recklessly causes physical harm or that otherwise threatens or endangers the health or safety of any person.
i. Physical abuse - hitting, pushing, use of a weapon, beating or other such activity resulting in or, intended to cause physical harm.
ii. Making a threat(s) of violence (including verbal, written, or virtual communication) that does or could cause(s) a reasonable expectation of harm to the health or safety of a specific person.
iii. Substantial or repeated acts and/or harassment directed at a person or group of people that would cause a reasonable person to feel fearful and/or find intimidating, hostile, or offensive, including but not limited to, bullying, stalking, and hazing (Hazing Prevention Regulation AR 2.6) as defined in Article I.
iv. Any form of retaliation towards a Complainant or any participant in an investigation or conduct process.
D. Attempted or actual theft of, damage to, or unauthorized use of property of the college or property of a member of the college community or other personal or public property.
E. Trespassing or unauthorized access to physical or virtual/cyber property or services of the college.
F. Having an animal in a campus building, other than in accordance with MCCCD policy (Domesticated Animals on Campus AR 3.9 and Guidelines for Service Animals on Campus) and ADA laws, such as permitted service animals individually trained to perform tasks for the benefit of an individual with a disability.
G. Failure to comply with direction of college officials or law enforcement officers in the performance of their duties and/or failure to properly identify oneself to these persons when requested to do so.
H. Unauthorized possession, duplication or use of keys to any college premises, or unauthorized entry to or use of college premises.
I. Violation of any college or MCCCD policy, rule or regulation published in hard copy or online, such as a college catalog, handbook, etc. or available electronically on the college's or MCCCD's website.
J. Violation of federal, state or local law.
K. Use, possession, manufacturing or distribution of illegal or other controlled substances except as expressly permitted by law, unless such use is prohibited due to a program of study for fields that are deemed safety sensitive positions. (Abuse-Free Environment AR 2.4.7, S-16 statement on the Arizona Medical Marijuana Act Proposition 203).
L. Illegal use, possession, manufacturing or distribution of alcoholic beverages or public intoxication.
M. Smoking tobacco products, using e-cigarettes, or any other violation of the Smoke-Free/Tobacco-Free Environment policy (AR 4.12).
N. Illegal or unauthorized possession of firearms, explosives, other weapons, or dangerous chemicals on college premises, or use of any such item, even if legally possessed, in a manner that harms, threatens, or causes fear to others, or property damage (Weapons policy AR 4.6).
O. Participation in a demonstration, riot or activity that disrupts the normal operations of the college and infringes on the rights of other members of the college community; leading or inciting others to disrupt scheduled and/or normal activities within any college building or area.
P. Obstruction of the free flow of pedestrian or vehicular traffic on college premises or at college-sponsored or supervised functions.
Q. Conduct that is disorderly, lewd or indecent; breach of the peace; or aiding, abetting or procuring another person to breach the peace on college premises or at functions sponsored by or participated in by the college or members of the academic community. Disorderly conduct includes but is not limited to: any unauthorized use of electronic or other devices or to make an audio or video record of any person while on college or MCCCD premises without their prior knowledge, or without their effective consent or when such a recording is likely to cause injury or distress. This includes, but is not limited to, secretly taking pictures of another person in a gym, locker room, or restroom.
R. Engaging in individual conduct that materially and substantially infringes on the rights of other persons to engage in or listen to expressive activity is subject to discipline under this conduct code. (Free Expression policy AR 6.24).
S. Attempted or actual theft or other abuse of technology facilities or resources, including but not limited to:
i. Unauthorized entry into a file, to use, read or change the contents or for any other purpose
ii. Unauthorized transfer of a file
iii. Unauthorized use of another individual's identification and/or password
iv. Use of technology facilities or resources to interfere with the work of another student, faculty member or college official
v. Use of technology facilities or resources to send obscene or abusive messages
vi. Use of technology facilities or resources to interfere with normal operation of the college technology system or network
vii. Use of technology facilities or resources in violation of copyright laws (Copyright Act Compliance AR 2.4.5)
viii. Any violation of the MCCCD's technology resource standards (Technology Resource Standards AR 4.4)
ix. Use of technology facilities or resources to illegally download files
x. Unauthorized use of intellectual property (Intellectual Property policy)
T. Abuse of the Student Conduct system, including but not limited to:
i. Falsification, distortion or misrepresentation of information before a Student Conduct Official.
ii. Invoking a Student Conduct Code proceeding with malicious intent or under false pretenses
iii. Attempting to discourage an individual's proper participation in, or use of, the Student Conduct system
iv. Attempting to influence the impartiality of the member of a judicial body prior to, and/or during the course of, the Student Conduct proceeding
v. Harassment, either verbal or physical, and/or intimidation of a Student Conduct Administrator prior to, during and/or after a Student Conduct proceeding
vi. Failure to comply with the sanctions imposed under this Student Conduct Code
vii. Influence or attempting to influence another person to commit an abuse of the Student Conduct Code system
viii. Failure to obey the notice from a Student Conduct or college official to appear for a meeting or hearing as part of the Student Conduct system.
U. Engaging in irresponsible social media conduct. All Student Conduct policies apply to social networking platforms.
V. Attempt to bribe a college or MCCCD employee.
W. Stalking behavior, which occurs if a student intentionally or knowingly maintains visual or physical proximity toward another person on two (2) or more occasions over a period of time and such conduct would cause a reasonable person to fear for their safety.
X. Sexual misconduct, including but not limited to:
i. The use or display in the classroom, including electronic, of pornographic or sexually harassing materials such as posters, photos, cartoons or graffiti without pedagogical justification.
ii. Explicit sexual comments by one (1) or more students about another student, or circulating drawings or other images depicting a student in a sexual manner.
iii. Unwelcome sexual advances, repeated propositions or requests for a sexual relationship to an individual who has previously indicated that such conduct is unwelcome, or sexual gestures, noises, remarks, jokes, questions, or comments by a student about another student's sexuality or sexual experience.
iv. Harassment based on sex, pregnancy, gender identity, gender expression, or sexual orientation that creates a hostile environment. A hostile environment exists when the conduct is sufficiently severe, persistent, or pervasive that it unreasonably interferes with, limits, or deprives an individual from participating in or benefiting from the MCCCD education programs and/or activities. The existence of a hostile environment is to be judged both objectively (meaning a reasonable person would find the environment hostile) and subjectively (meaning the impacted individual felt the environment was hostile).

## Y. Sexual Exploitation

i. Taking non-consensual or abusive sexual advantage of another for anyone's advantage or benefit other than the person being exploited. Examples of behavior that could rise to the level of Sexual Exploitation include:
a. Recruiting, harboring, transporting, providing, or obtaining another person for the purpose of sexual exploitation;
b. Non-consensual visual (e.g., video, photograph) or audio-recording of sexual activity;
c. Non-consensual distribution of photos, other images, or information of an individual's sexual activity, intimate body parts,
or nakedness, with the intent to or having the effect of embarrassing an individual who is the subject of such images or information;
d. Going beyond the bounds of consent (such as letting your friends hide in the closet to watch you having consensual sex);
e. Engaging in non-consensual voyeurism;
f. Knowingly transmitting an STI (sexually transmitted infection), such as HIV, to another without disclosing one's STI status;
g. Exposing one's genitals in non-consensual circumstances, or inducing another to expose their genitals;
h. Possessing, distributing, viewing or forcing others to view obscenity.

## 5. Violation of Law and College Discipline

A. Disciplinary proceedings may be instituted against a student charged with conduct that potentially violates both the criminal law and this Student Conduct Code (that is, if both possible violations result from the same factual situation) without regard to pending civil or criminal litigation. If a criminal investigation and/or prosecution results from the same factual situation, proceedings under this Student Conduct Code may be carried out prior to, simultaneously with, or following civil or criminal proceedings off campus at the discretion of the college official responsible for administration of the Student Conduct Code. Determinations made or sanctions imposed under this Student Conduct Code shall not be subject to change because criminal charges arising out of the same facts giving rise to violation of college rules were dismissed, reduced, or resolved in favor of or against the criminal law defendant.
B. When a student is charged by federal, state or local authorities with a violation of law, the college will not request or agree to special consideration for that individual because of their status as a student. If the alleged offense is also being processed under this Student Conduct Code, however, the college may advise external law enforcement and other authorities of the existence of this Student Conduct Code and of how such matters will be handled internally within the college community. The college will cooperate fully with the law enforcement and other agencies in the enforcement of criminal law on campus and in the conditions imposed by criminal courts for the rehabilitation of student violators. Individual students and faculty members, acting within their personal capacities, remain free to interact with governmental representatives as they deem appropriate.
C. The Student Code of Conduct may apply to off-campus behavior that affects a substantial interest of the college. A substantial college interest means:
i. Any situation where it appears that the student's conduct may present a danger or threat to the health or safety of themselves or others; and/or
ii. Any situation that significantly impinges upon the rights, property or achievements of self or others or significantly breaches the peace and/or causes social disorder, and/or
iii. Any situation that is detrimental to the educational mission and/or interests of the college, unless it is protected by a student's constitutional right to free expression.

## Article IV: Student Conduct Code Procedures

1. Allegations and Resolution Options
A. Any member of the college community may file a complaint against a student for violations of this Student Conduct Code. A complaint may be in writing or verbally given to the Student Conduct Administrator. Once the complaint has been made, it shall be put in writing and a notice of allegation should be submitted to the Respondent. A Respondent must receive written notice of the allegations before a meeting is held with the Respondent regarding the conduct. The notice of allegations should outline the particulars of the complaint, the presumption of innocence, an outline of the Respondent's due process rights, and the contact information for the Student Conduct Administrator.
B. There is no statute of limitations for bringing a complaint under the Student Conduct Code, but it is advisable to bring a complaint as soon after the conduct being reported occurred.
C. Both the Complainant and the Respondent shall have the right to be assisted by an advisor of their choosing. A party who elects to be assisted by an advisor must notify the Student Conduct Administrator of the name and contact information of the Advisor not less than two (2) days before the scheduled meeting with the party. Advisors may not be an attorney. Both the Complainant and the Respondent are responsible for presenting their own information during the course of the meeting. Advisors are not permitted to speak or participate directly in any Student Conduct meeting or proceeding and can be removed from proceedings by not abiding by these parameters.
D. Misconduct that would fall under the jurisdiction of AR 5.1.16, meaning it alleges sexual harassment, discrimination, sexual assault, dating/domestic violence, or stalking should be forwarded to the Title IX Coordinator for a jurisdictional review. In such cases where the conduct alleged does not meet the definition of sexual harassment, as outlined in the Title IX Regulations (and MCCCD policy AR 5.1.16) or is otherwise subject to mandatory or discretionary dismissal, the alleged conduct will be referred back to the Student Conduct Code for investigation and adjudication.
E. After receiving information on alleged violations of the Student Conduct Code, the Student Conduct Administrator will review the information, gather facts, and make a determination on the appropriate next steps. Documentation regarding the aforementioned steps must be maintained. Next steps are:
i. Dismiss the case due to insufficient evidence, lack of jurisdiction, or the alleged behavior, even if proven true, would not violate the code.
ii. Proceed with a full, thorough, and impartial investigation with formal disciplinary proceedings.
iii. Initiate an informal resolution outside of formal disciplinary proceedings provided involved parties mutually agree and the Student Conduct Administrator determines this option is appropriate given the nature of the allegations. An informal resolution can also be an option when the Respondent accepts responsibility for the behavior.
iv. If the informal resolution option is initiated, the determination with regard to responsibility and sanctions is final and cannot be appealed.

## 2. Informal Resolution Options

A. Informal resolution options include, but are not limited to: administrative dispositions, mediation, facilitated dialogue, and restorative justice practices.
B. Determinations regarding the type of informal resolution offered in a particular case will be made in consultation with the Student Conduct Administrators, other MCCCD leadership, as necessary, and the students at issue. Staff outside of the Student Conduct Administrator's office may be involved in facilitating the agreed upon option.
C. Informal resolutions can result in the same sanctions and institutional responses as are reserved for matters that have been addressed through a full investigation.
D. The Student Conduct Administrator will make the determination with regard to responsibility.
E. Should new facts come forward during the informal resolution process that significantly alter the nature of the allegations, the Student Conduct Administrator has the discretion to initiate a full investigation. If one of the involved parties decides that the informal resolution option is not appropriate, they may request a full investigation. This request must be submitted to the Student Conduct Administrator before the conclusion of the informal resolution process. If this action is taken, the Student Conduct Administrator will document the end of the informal resolution process and shall initiate a formal investigation.
F. Both the Complainant and the Respondent must sign an agreement to engage in the informal resolution process.

## 3. Interim Actions

A. If the Student Conduct Administrator is in receipt of information indicating that the Respondent poses a threat of harm or substantial disruption, the Student Conduct Administrator may take administrative action(s) to restrict, suspend, or alter the rights of a student for a temporary period. The interim action(s) will be communicated in writing to involved parties and will remain in place until a final decision on the pending allegations has been made or until the Student Conduct Administrator believes the reason(s) for issuing the interim action(s) no longer exists. These administrative actions are not designed to be punitive, and they are not issued as sanctions.
B. A student who is restricted from campus or suspended due to interim action(s) may appeal the interim action(s) in writing to the Dean or Vice President of Student Affairs (VPSA) who is over the Student Conduct Administrator, and in the case that a VPSA is the Student Conduct Administrator, to the President of the college, no later than five (5) business days following the effective date of the
interim action(s). This person will determine, within five (5) business days of receipt of the appeal, if the interim action(s) should remain in place, be modified, or lifted.
C. Examples of interim actions include, but are not limited to, no contact directives, removal from a class or classes or specific MCCCD locations, administrative removal from campus, administrative/enrollment holds, and temporary suspension.
D. Factors considered before issuing interim actions include, but are not limited to, individual safety, community safety, and the need to maintain an academic and work environment free from disruption. If the interim action is temporary suspension or removal from campus, the Student Conduct Administrator will consult with the college's behavioral assessment team as part of the decisionmaking process.

## 4. Notice of Allegations and Investigations

A. The notice of allegations letter sent to the Respondent will also be sent to the Complainant. The notice of allegation should specify that the investigation will be done to determine, under the preponderance of the evidence standard, if a violation of the policy has taken place. The notice of allegations should outline the particulars of the complaint, the presumption of innocence, an outline of the Respondent's due process rights, and the contact information for the Student Conduct Administrator.
B. Investigations will be conducted in a fair and impartial manner. Respondents are treated with a presumption of innocence until such time as it has been adjudicated that a violation of the Student Conduct Code has taken place.
C. If during the investigation additional allegations are presented or if allegations outlined in the original notice of allegations have been retracted, the Respondent must receive an amended notice of allegations and shall be allowed to address the new allegations.

## 5. Investigation Process

A. At the beginning of the investigation interview, the Student Conduct

Administrator will review with the party being interviewed: the Student Conduct Code, the investigation process, how determinations are made, possible sanction(s), the prohibition against retaliation, and appeal options.
B. Students are expected to comply with requests and directives issued by the Student Conduct Administrator performing duties connected to an investigation. Should a student choose to not participate in the conduct process, the Student Conduct Administrator will proceed with the investigation and make determinations without gaining input from the non-participating student.
C. After the investigative interview, Respondents will be given up to five (5) days to reflect upon and respond to the allegations(s) in writing. The written response should be delivered to the Student Conduct Administrator within that time period. Likewise, Complainants and witnesses will be given up to five (5) days to reflect upon and respond to the information presented and outlined during the investigative interview. The Student Conduct Administrator does not need to provide interview notes or additional information to the student to facilitate this process.
D. A student can have an advisor present in all conduct proceedings, but the advisor cannot speak on the student's behalf.
E. Involved parties can identify witnesses who have information relevant to the investigation. These witnesses will be contacted by the Student Conduct Administrator who will assess the relevance of the witnesses and conduct interviews as appropriate.
F. Complainants and Respondents will be notified in writing when an investigation has concluded and the investigative report has been completed, which will encompass all information except for a final determination.

## 6. Determinations

A. The Student Conduct Administrator will determine whether it is more likely than not that a student and/or student organization violated the Student Conduct Code.
B. The Student Conduct Administrator will consider any mitigating or aggravating factors and determine the appropriate sanctions.
C. Within five (5) business days of the determination, the Student Conduct Administrator will provide the parties a written decision. The written decision will indicate whether or not the charge(s) was substantiated and, if the charge(s) was/were substantiated, will outline the remedial action(s) taken including sanctions if applicable, to be issued by the college. The determination letter will summarize the investigation and outline the determination made regarding the allegations outlined in the complaint, as well as state any issued sanction(s) based on a finding of responsibility.
D. Respondent will be informed of the right to appeal the determination and will be given instructions on how to do so in the decision letter.

## 7. Appeals

A. The Respondent must submit a written appeal request to the supervising Dean of Students or Vice President of Student Affairs (VPSA), or in the case that the Student Conduct Administrator is the VPSA, the President, no later than five (5) days from the date of the written determination.
B. If no appeal is filed within the five (5) day window, the determination regarding responsibility for a violation under this policy and sanctions is final.
C. Pending the filing of a timely appeal request, the decision by the Dean of Students or VPSA will delay the effective date of the disciplinary sanction.
D. The grounds for an appeal are restricted to the following:
i. Procedural irregularity that affected the outcome of the matter, and
ii. New evidence that was not reasonably available at the time determinations regarding responsibility was made, or that could affect the outcome of the matter.
E. The Dean of Students or VPSA will notify the involved parties of a decision regarding the appeal within five (5) days of receiving the appeal request. Both parties to the original investigation will be notified of the appeal decision.
i. If the appeal is denied, the decision by the Student Conduct Administrator shall be considered final and binding upon all concerned.
ii. If the appeal is granted, the rationale for the decision will be outlined in the decision letter as will the next steps in the process.
a. The appellate body has discretion upon granting an appeal to refer the matter back to the Student Conduct Administrator for reconsideration, or alter the sanction(s) only (including issuing more severe sanctions).

## 8. Matters Related to Infringement of the Right to Free Expression

A. As outlined in Arizona Revised Statute 15-1866, any student who engages in individual conduct that materially and substantially infringes on the rights of other persons to engage in or listen to expressive activity is subject to discipline under this conduct code.
B. In all disciplinary proceedings involving students, including proceedings involving expressive conduct, a student is entitled to a disciplinary hearing under published procedures that include, at a minimum, all of the following:
i. The right to receive advanced written notice of the allegations.
ii. The right to review the evidence in support of the allegations.
iii. The right to confront witnesses who testify against that student.
iv. The right to present a defense.
v. The right to call witnesses.
vi. A decision by an impartial person or panel.
vii. The right to appeal.
viii. If either a suspension of more than thirty (30) days or expulsion is a potential consequence of a disciplinary proceeding under this section, the right to active assistance of counsel.

## 9. Sanctions

A. The following sanctions may be imposed upon any student found to have violated the Student Conduct Code:
i. Warning - a written notice to the student that the student is violating or has violated institutional rules or regulations.
ii. Disciplinary Probation - a written reprimand for violation of specified rules or regulations. Probation is for a designated period of time and includes the probability of more severe disciplinary sanctions if the student is found to violate any institutional rules or regulation(s) during the probationary period.
iii. Loss of Privileges - denial of specified privileges for a designated period of time which can include, but is not limited to, eligibility for some leadership roles, scholarships, membership in college-affiliated organizations, programs, and activities, and restricted access to college premises.
iv. Restitution - compensation for loss, damage or injury. This may take the form of appropriate service and/or monetary or material replacement.
v. Discretionary Sanctions - work assignments, essays, service to the college, or community, apology letters, educational programs, or other related discretionary assignments. (Such assignments must have the prior approval of the Student Conduct Administrator and will have specific due dates.)
vi. Behavioral Requirement - engagement with services or programs designed to address behaviors of concern through education and skillbuilding.
vii. College Suspension - separation of the student from all the colleges in MCCCD for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified. Suspension from ONE college means a suspension from ALL colleges in MCCCD.
viii. College Expulsion - permanent separation of the student from all the colleges in MCCCD. Expulsion from one college means expulsion from all MCCCD colleges.
ix. Degree/Certificate Revocation - permanent revocation of a student's degree and/or certificate.
x. Other Sanctions - additional or alternative sanctions may be created and designed as deemed appropriate to the offense with the approval of the Student Conduct Administrator.
B. More than one of the sanctions listed above may be imposed for any single violation.
C. Disciplinary sanctions are part of a student's educational record.

## 10. Miscellaneous

## A. Administrative Hold

The Student Conduct Administrator may place a temporary administrative hold preventing a-student's registration, transcript release, or graduation if it is necessary to secure the student's cooperation in the investigation or compliance with an administrative direction. This hold is not a sanction but a necessary step to resolve the complaint promptly.

## B. Academic Consequences

Violations of the Student Conduct Code can have academic consequences if the violation also constitutes failure to meet standards of performance or professionalism set by the instructor or the program, or if it constitutes cheating, plagiarism, falsification of data, or other forms of academic dishonesty. In such cases, the instructor may award a failing grade for the assignment or the course in such cases, and the program faculty may decide that the student is ineligible to continue in the program. Academic consequences are determined by the faculty and academic administration, and are not dependent on the decisions of the college officials charged with the administration of the Student Conduct Code.

## Article V: Interpretation and Revision

Any question of interpretation regarding the Student Conduct Code shall be referred to the college official responsible for administration of the Student Conduct Code for final determination.

### 2.5.3

## Student Records

## 1. Definitions

For the purposes of this policy, the Maricopa County Community College District has used the following definition of terms.
A. "College" includes all colleges, educational centers, skill centers and District office.
B. "Educational Records" are any record (in handwriting, print, tapes, film, or other media) maintained by the college or an agent of the college which is directly related to a student, except:
i. A personal record kept by a staff member, if it is kept in the personal possession of the individual who made the record, and information contained in the record has never been revealed or made available to any other person except the maker's temporary substitute
ii. An employment record of an individual whose employment is not contingent on the fact that he or she is a student, provided the record is used only in relation to the individual's employment
iii. Records maintained by the college's security unit, if the record is maintained solely for law enforcement purposes, is revealed only to law enforcement agencies of the same jurisdiction and the security unit does not have access to education records maintained by the community college.
iv. Records made or maintained by a physician, psychiatrist, psychologist, or other recognized professional or paraprofessional, if the records are used only for treatment of a student or made available only to those persons providing treatment.
v. Alumni records which contain information about a student after he or she is no longer an attendant of the community college and the records do not relate to the person as a student

## 2. Records Request

Official verification of educational records is issued by the Admissions and Records Office/Office of Student Enrollment Services.

## 3. Fees

If a copy(ies) of a portion or all of the records in a student's file is requested, the custodian of the records may charge a fee for copies made. However, the willingness or ability to pay the fee will not effectively prevent students from exercising their right to inspect and review (under supervision of a college employee) their records. A fee will not be charged to search for or to retrieve records. Standard fees for printing and duplication services will apply.
4. Annual Notification ( SEE ALSO FERPA EXPLANATION_)

Students will be notified of their rights annually by electronic mail in a FERPA Annual Notification. Students' rights may also be provided via the following means: FERPA Annual Notification placement on the college website, publication in the college catalog and/or the student handbook:
Individuals requesting admission or enrollment at any of the Maricopa County Community Colleges are asked to provide certain contact information that is collected and used for the purpose of responding to the request. The information collected may include your name, address,
telephone number or email address. Maricopa county community colleges and/or its agents, including attorneys and/or collection agencies, may use this information to contact you through various means, including phone calls, text messages, e-mail and postal mail. Communication may include, but is not limited to, information regarding account balances, programs and services that MCCCD offers.

## 5. Rights of Access to Educational Records

The Family Educational Rights and Privacy Act (FERPA) affords eligible students certain rights with respect to their education records. (FERPA defines an "eligible student" as a student who has reached 18 years of age or is attending a postsecondary institution at any age). These rights include:
A. The right to inspect and review the student's education records within 45 days after the day the college receives a request for access.
1.Students should submit to the Admissions \& Records Office/Enrollment Services written requests that identify the record(s) they wish to inspect. The form to do so may be found here. The college official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the college official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
2. There may be occasions when a record may not be copied, especially if doing so may compromise another student or faculty member's privacy. The college or District may deny access to the following records:
a. Parents' financial statements;
b. Letters of recommendation, if the student has waived his or her right of access;
c. Records filed before January 1, 1975; or
d. Records not included in the FERPA definition of educational records.
3. The Maricopa County Community College District and its associated colleges reserve the right to deny copies of records, including transcripts, in any of the following situations:
a. The student has an unpaid financial obligation to the college or District;
b. There is an unresolved disciplinary action against the student; or
c. The educational record requested is an exam or set of standardized test questions.
B. The right to request the amendment of the student's education records that the student believes is inaccurate, or misleading.

1. Students may ask the college to amend a record that they believe is inaccurate or misleading. They should write the college official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. A proper request to correct a student education record must:
a. Be written to the College Registrar;
b. Clearly identify the part of the record they want to be changed; and
c. Specify why the record is inaccurate or misleading.
2. Any written request which does not include the required information will not be considered. The requestor will be notified in writing that their request was not properly submitted and they will receive directions on how to resubmit it.
3. If the college decides not to amend the record as requested by the student, the college will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing
procedures will be provided to the student when notified of the right to a hearing. The FERPA Appeal Process is also outlined in the student handbook and in Appendix S-17 of the MCCCD Administrative Regulations.

## C. The right to provide written consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.

1. With the exception of directory information and the various FERPA authorized disclosures without consent, the Maricopa County Community College District or its associated colleges must receive written consent from students before disclosing any personally identifiable information from educational records. The FERPA release of information consent may be found here.

## CONDITIONS OF DISCLOSURE WITHOUT CONSENT

FERPA permits the disclosure of personally identifiable information (PII) from students' education records, without consent of the student, if the disclosure meets certain conditions found in $\S 99.31$ of the FERPA regulations. Except for disclosures to school officials, disclosures related to some judicial orders or lawfully issued subpoenas, disclosures of directory information, and disclosures to the student, $\S 99.32$ of FERPA Regulations requires the institution to record the disclosure. Eligible students have a right to inspect and review the record of disclosures. A postsecondary institution may disclose PII from the education records without obtaining prior written consent of the student:

1. To other school officials, including instructions, administrators, supervisors, Governing Board members, academic or support staff, law enforcement and health staff, within the MCCCD whom the college or District has determined to have legitimate educational interests. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities. This includes contractors, attorneys, auditors, collection agents, consultants, volunteers, or other parties to whom the college has outsourced institutional services or functions, provided that the conditions listed in $\S 99.31(\mathrm{~A})(1)(\mathrm{I})(\mathrm{B})(1)-(\mathrm{A})(1)(\mathrm{I})(\mathrm{B})(2)$ are met. (§99.31(A) (1))
2. To officials of another school where the student seeks to or intends to enroll, or where the student is already enrolled if the disclosure is for purposes related to the student's enrollment or transfer, subject to the requirements of §99.34. (§99.31(A) (2))
3. To authorized representatives of the US Comptroller General, the US Attorney General, and the US Secretary of Education, or State and Local Educational Authorities, such as a state postsecondary authority that is responsible for supervising the college's state supported education programs. Disclosures under this provision may be made, subject to the requirements of $\S 99.35$, in connection with an audit or evaluation of federal-or state-supported education programs, or for the enforcement of or compliance with federal legal requirements that relate to those programs. These entities may make further disclosures of PII to outside entities that are designated by them as their authorized representatives to conduct any audit, evaluation, or enforcement, or compliance activity on their behalf (§§99.31(A) (3) AND 99.35)
4. In connection with financial aid for which the student has applied or which the student has received, if the information is necessary to determine eligibility for the aid, determine the amount of the aid, determine the conditions of the aid, or enforce the terms and conditions of the aid. (§99.31(A) (4))
5. To organizations conducting studies for, or on behalf of, the college, in order to: (A) Develop, Validate, or Administer Predictive Tests; (B) Administer student aid programs; or (C) Improve instruction (§99.31(A) (6))
6. To accrediting organizations to carry out their accrediting functions. (§99.31(A) (7))
7. To parents of an eligible student if the student is a dependent for IRS tax purposes.
(§99.31(A) (8))
8. To comply with a judicial order or lawfully issued subpoena. (§99.31(A) (9))
9. To appropriate officials in connection with a health or safety emergency, subject to §99.36. (§99.31(A) (10))
10. Information the college has designated as "Directory Information" under §99.37. (§99.31(A) (11))
11. To a victim of an alleged perpetrator of a crime of violence or a non-forcible sex offense, subject to the requirements of $\S 99.39$. The disclosure may only include the final results of the disciplinary proceeding with respect to that alleged crime or offense, regardless of the finding. (§99.31(A) (13))
12. To the general public, the final results of a disciplinary proceeding, subject to the requirements of $\S 99.39$, if the school determines the student is an alleged perpetrator of a crime of violence or non-forcible sex offense and the student has committed a violation of the college's rules or polices with respect to the allegation made against him or her. (\$99.31(A) (14))
13. To parents of a student regarding the student's violation of any federal, state, or local law, or of any rule or policy of the school, governing the use or possession of alcohol or a controlled substance if the school determines the student committed a disciplinary violation and the student is under the age of 21. (§99.31(A) (15))

Students who believe that MCCCD or an agent of the college has disclosed information contrary to the provisions outlined in this section may submit a grievance via the non-instructional complaint resolution process. The process is posted at: S-8 Non-Instructional Complaint Resolution

## D. The right to file a complaint with the US Department to Education concerning alleged failures by the college to comply with the requirements of FERPA.

The name and address of the Office that administers FERPA is:
Family Policy Compliance Office
US Department of Education
400 Maryland Avenue SW
Washington, DC 20202-5920
E. 2012 FERPA Amendment: As of January 3, 2012, The U.S. Department Of Education's FERPA regulations expand the circumstances under which your education records and personally identifiable information (PII) contained in such records-including social security number, grades, or other private information-may be accessed without student consent. for more information on this amendment, please see: FERPA

## F. Student Directory Information

1. A Maricopa County Community College may release directory information about any student who has not specifically requested the withholding of such information. Students
who do not want directory information released may so indicate during the admissions process or notify the Admission \& Records Office/Enrollment Services.
A. Students should consider very carefully the consequences of a decision to withhold directory information. A privacy block will call for the college or District to not release this directory information. Therefore, any future requests for such information from noninstitutional persons or organizations will be refused.
2. Students may request their college to withhold the sharing of directory information by filing out a request to withhold directory information form and submitting that form to the college Admission \& Records Office/Enrollment Services.
3. Directory information is considered public information. At any Maricopa County Community College, directory information is defined as a student's:
A. Name
B. Address
C. Phone Number
D. MCCCD Email Address
E. Photograph/Electronic Image
F. Place of Birth
G. Major Field of Study
H. Current Enrollment Status
I. Participation in Officially Recognized Activities
J. Dates of Attendance
K. Degrees Awarded
L. Awards and Academic Honors Received/Dean's List Selection
M. Previous Institutions Attended
N. Program and promotional materials on participants in various sports and similar public activities, including weight and height of athletic team members.

## G. Disclosure to Parents

In accordance with federal law, college officials may disclose educational records to parents of a student who have established the student's status as a dependent according to the Internal Revenue Code of 1986, section 152, without the written consent of the student.

## RELEASE OF DIRECTORY (PUBLIC) INFORMATION

At its discretion, the college or District may provide directory information in accordance with the provisions of FERPA. Types of information considered as directory information are listed below. Additional information may be found at: DISTRICT.MARICOPA.EDU under Consumer Information.

## BLOCKING THE RELEASE OF DIRECTORY (PUBLIC) INFORMATION

By default, a college or District may release a student's directory information. Students may prohibit (or block) the public disclosure of directory information by completing a PRIVACY BLOCK_form.
Students should consider very carefully the consequences of a decision to withhold directory information. A privacy block will call for the college or District to not release this directory information. Therefore, any future requests for such information from non-institutional persons or organizations will be refused.

Although the college or District will honor a student's request to withhold directory information, it cannot assume responsibility to contact the student for subsequent permission to release this information. Regardless of the effect upon the student, the college or District assumes no liability as a result of honoring a student's instructions to withhold such information.

## ADDITIONAL INFORMATION:

- If a student blocks directory information, it still may be inspected by those MCCCD officials authorized by law to inspect education records without consent.
- If a student chooses to block directory information, it cannot be released to friends, family, prospective employers, the news media, advisors, student activities, and honors societies.
- Some reasons for considering a privacy block on directory information include harassment or the advice of a legal or medical professional.
- If a student wishes to keep public data private but release information so it can be published in commencement programs and honors lists, contact the office of admissions \& records/enrollment services at the appropriate college(s).
If a student wishes to remove the privacy block, he or she must rescind the previous block. The college and District cannot assume responsibility to contact students for subsequent permission to release this information. It is the sole responsibility of the student to initiate the release of blocked information.


## USING SOCIAL SECURITY NUMBERS

Due to identity theft concerns and privacy issues, students will no longer be asked to provide a social security number as a personal identifier. Instead, students will be assigned a student id number upon enrollment that can be used to access education records, as needed.

### 2.5.4

## Student Employment

1. District Student Employees
A. Introduction

Students may be employed by the college as student help. District regulations require that students be hired in essential jobs and that they be properly trained and supervised.
B. Philosophy and Workload for Student Employees
i. It shall be the philosophy of Maricopa Community College District that a student may work to augment college and living expenses, however, the scholastic endeavor should be foremost. Sufficient time should be allotted for classroom attendance, homework, out-of-class study and participation in activities.
ii. A workload of twenty (20) hours per week should be established as the maximum number of hours a student employee may work on campus. All student employees shall be enrolled in a minimum of three (3) semester credit hours. Any combination of day and evening hours would meet this requirement. Any student employee having special reasons to work over 20 hours per week or having dropped below three (3) credit hours should
request his/her immediate supervisor to obtain approval from the College president or his/her designee.
iii. During the summer sessions, students may be eligible for employment if they were enrolled for a minimum of three (3) semester credit hours at the end of the spring semester, or if they have been accepted for admission for the fall semester. Exceptions to the three (3) semester credit hours may be made by the president, or his/her designee. Summer shall be designated as the time from the official end of the spring semester to the beginning of classes for the fall semester.

## C. Student Employee Benefits

As student employees, there are no entitlements to employee benefits; i.e., vacation, retirement, sick leave, health and life, or disability insurance. Students will, however, be covered under Worker's Compensation Insurance.
D. Student Employment Records

Student employee records will be maintained at the Financial Aid office, the office of the fiscal agent or the Career/Placement Office and will be reviewed periodically by the vice president of student affairs.
E. Student Compensation

The hourly rate of pay for student employees shall coincide with the policies of the District Salary Schedule.
F. Employee Contracts and Forms (See Appendix FM-3)
G. Student Employee Grievance Procedure

Part-time student employees working for one of the Maricopa Community
Colleges may wish to file a grievance relating to certain working conditions or violation of student employment regulation. Please refer to the Non-Instructional Complaint Resolution Process (AR 2.3.12)

## 2. Student Security Guards

A. Introduction and Philosophy

Students may be employed by the college as student help. If student guards do not come from the ranks of Administration of Justice classes, they must undergo appropriate training to qualify them as student guards. This training program is outlined in the regulation.
B. Workload of Student Security Guards
i. Student security guards shall be enrolled for a minimum of three (3) semester hours.
ii. Student security guards shall be limited to 20 hours per week when the workweek starts at 7:00 a.m. on Monday and concludes at 11:00 p.m. on Friday. Additional hours may be worked if guards are assigned special duty at games or activities held on campus during the weekend, or if guards are assigned a shift on Saturday and Sunday, between 7:00 a.m. and 11:00 p.m.
C. Students not in Administration of Justice Program
i. Use of student other than those in Administration of Justice Program:

1. Selection of the student must be personally approved by the vice president of student affairs and chief of security.
2. Selection of a student should not extend beyond one semester without the approval of the vice president of student affairs.
3. Selected student must undergo a special training program directed by the chief of security and approved by the vice president of student affairs.
ii. Recommended program for students other than those in Administration of Justice programs: Students employed by campus security who are not majors in the Administration of Justice program should be given at least twenty (20) hours of training with pay before being allowed to function independently as a campus security guard. This training should include, but not be limited to instruction in:
4. Wearing of the uniform, general appearance, and demeanor
5. The use of the various security report forms and how to properly complete them to provide requested information; General report writing methods
6. Public relations methods used on the campus
7. Crime prevention methods used on the campus; Patrol methods used in buildings and grounds.
8. Basic techniques for interviewing students, faculty and visitors relative to the incidents
9. Laws and regulations governing the actions of campus security personnel concerning rendering of assistance to students, faculty and visitors on the campus
10. Basic first aid

## D. Student Security Guards Employee Benefits

As student employees there are not entitlements to employee benefits; i.e., vacation retirement, sick leave, health and life, or disability insurance. Students will, however, be covered under Worker's Compensation Insurance.
E. Student Employment Records

The student security guard's employment records will be maintained at the office of the chief of security and reviewed periodically by the vice president of student affairs.

### 2.5.5

## Student Governance

Student governing bodies derive their authority from the Maricopa County Community College District Governing Board that exists in accordance with Arizona Revised Statutes. The administration of the District is vested in the Chancellor who delegates responsibility for each college to the college president who serves in a management and policy implementation capacity having the ultimate responsibility for all activities of the college. The president shall designate the administrator(s) (i.e., directors of student leadership) at each college who will be charged with the responsibility for working with the college student governing body(ies) in the development of college student activities and programs.

A representative form of student governance may exist at each college/center as well as district wide to provide an effective means of communication among students, faculty, staff and
administration and to provide student input in college and District matters. Eligibility requirements are to be met and spelled out in detail in each student governance constitution. These constitutions shall establish the minimum requirements for the elective/appointive officers. All student government constitutions shall be submitted to the Governing Board General Counsel to ensure compliance with federal and state laws, the Maricopa Community Colleges Governing Board Policies and the Chancellor's Administrative Regulations. Since Rio Salado Community College is a countywide non-campus college, the president shall ensure that opportunities exist for student involvement.

College student constitutions should be reviewed annually by student governance. The appropriate vice president or designee of each college shall be responsible for submitting any changes to the president of the college for transmittal to the Governing Board General Counsel.

## 1. Officers/Members

All reference in this document to positions will designate whether the position is an officer position or a member position.
Each student governance constitution shall define which of its elected positions (maximum of 5) within its structure shall be designated as officers. The persons filling those positions shall be referred to, in this document, as officers. Persons filling all other positions, elected or appointed, shall be referred to as members (excluding non-voting committee members).
All positions filled by election shall be considered as elected positions, even though the person filling the position may have been appointed to fill an unexpired term of another individual.
2. Designation

Colleges with two (2) student governments shall designate the governments as "day" or "evening." Colleges with one (1) government shall be considered day students, for the purposes of this document.

## 3. Eligibility for Office

All student governance constitutions shall prescribe that all persons elected or appointed as officers shall be enrolled in and maintain a minimum of six (6) credit hours for day student governments, three (3) credit hours for evening student governments. Officers shall have and maintain a minimum cumulative grade point average of 2.50 and be in good standing (not on probation) according to the written district policy. Convicted felons shall be ineligible for office (ARS § 13-904). The constitution may, however, set more rigid requirements, if so desired by college student governance.

## 4. Tenure of Position

Tenure in any student governance position shall be determined by the respective student governance constitutions. In no case shall any student be allowed to serve in any combination of officer/member positions beyond a total of ten (10) semesters. Tenure in any combination of officer positions shall be limited to four (4) semesters.

## 5. Removal from Office

Provisions shall be made in all student governance constitutions for removal for cause of individuals from elected or appointed student governance positions.
6. Remuneration Limitations
A. Student body officers may receive financial support and/or a letter grade in a leadership class during their terms of office as authorized in their respective
student governance constitutions. Student body officers (maximum 5) may receive up to twenty (20) hours per week in financial support and/or up to six (6) credit hours in leadership classes per semester. Remuneration shall be for services rendered and not for merely holding the office.
B. For qualifying students, Federal Work Study (FWS) funds may be used in accordance with Federal guidelines.
C. The allowance for awarding honorariums or scholarships for executive student officers is a maximum of $\$ 200.00$.
D. Compensation may be received for both honorariums/scholarships and college employment in the same semester.
7. Amending Student Constitutions

College student constitutions should be reviewed annually by student governance. The appropriate vice president or designee of each college shall be responsible for submitting any constitutional changes to the President of the college for transmittal to the Governing Board General Counsel.
8. Student Governance Advisors

College organization advisors will be provided for in each student governance constitutions. Such advisors shall be full-time or part-time employees of the Maricopa Community Colleges.
Recommendations for appointment of an advisor may be submitted to the appropriate vice president or college president. Recommendations for dismissal of an advisor with just cause may be submitted to the appropriate vice president or college president.
9. Legal/Fiscal/Financial Matters

Authority and responsibility beyond the scope specifically covered in student policies, or interpretation of such matters within laws, board policies, etc. shall rest with the offices of General Counsel and Chancellor, respectively.

## 10. Final Authority

In the event of a complete breakdown of the governance body, the college president will serve as the final authority.

## Student Clubs and Organizations

In addition to student governing bodies, student clubs and organizations may be formed that fall under the operational direction of the Office of Student Life and Leadership and the administrative direction of the Vice President of Student Affairs at each college. Student clubs and organizations are generally interest-based in nature (such as for a particular program, discipline, or college activity) and are considered to be an important part of the total college experience. Each college shall outline the requirements necessary to establish the formation of an interest-based student club and organization (i.e., mission/purpose, size, structure, advisors). Club advisors shall be employees of the Maricopa County Community College District.

In most instances, student clubs and organizations shall be open to all students who are enrolled in credit courses at a Maricopa Community College. Pursuant to ARS §15-1863, religious or political student organizations may determine that the organization's internal affairs, selecting the organization's leaders and members, defining the organization's doctrines, and resolving the organization's disputes are part of the organization's religious or political mission and that only persons committed to that mission should conduct such activities. For religious and political
organizations, state statute recognizes the role that viewpoint serves in the mission and purpose of the organization's operations. Thus, such groups may elect to select members based upon organizational doctrine. The MCCCD may not deny recognition or any privilege or benefit to a religious or political student organization or group that exercises its rights pursuant to the statute.

Whereas ARS §15-1863 allows religious and political organizations to determine their internal affairs and the selection of their leaders and members, the MCCCD non-discrimination policy is applicable to all other aspects of these student clubs and organizations.

## Hazing Prevention Regulation (AR 2.6)

## Hazing Prevention Regulation

The Maricopa County Community College District (MCCCD) strives to exceed the changing expectations of our many communities for effective, innovative, studentcentered, flexible and lifelong educational opportunities. Our employees are committed to respecting diversity, continuous quality improvement and the efficient use of resources. We are a learning organization guided by our shared values of: education, students, employees, excellence, diversity, honesty and integrity, freedom, fairness, responsibility and public trust.
Central to the vitality and dignity of our community of learners is an environment that produces broadly educated responsible citizens, who are prepared to serve and lead in a free society. Academic instruction, co-curricular activities and community involvement come together to meet this goal. All members of the MCCCD community, through the best of their abilities, must be provided the opportunity to contribute in a safe, orderly, civil and positive learning environment. One factor that inhibits the achievement of the above stated purpose is the practice of hazing.

1. Hazing by any student, employee or other person affiliated with MCCCD is prohibited.
2. "Hazing" is defined as any intentional, knowing or reckless act committed by a student or other person in any MCCCD college or affiliated educational setting, whether individually or in concert with other persons, against another student, and in which both of the following apply:
A. The act was committed in connection with an initiation into, an affiliation with or the maintenance of membership in any club/organization that is affiliated with MCCCD; and
B. The act contributes to a substantial risk of potential physical injury, mental harm or personal degradation, or causes physical injury, mental harm or personal degradation.
3. Any solicitation to engage in hazing is prohibited.
4. Aiding and abetting another person who is engaged in hazing is prohibited.
5. Victim consent is not a defense for violation of the Maricopa Community Colleges Hazing Prevention Regulation.
6. All students, faculty and staff must take reasonable measures within the scope of their individual authority to prevent violations of the MCCCD Hazing Prevention Regulation.
7. Hazing activities and situations include, but are not limited to, the following:
A. Pre-pledging, illegal pledging or underground activities.
B. Acts of metal and physical abuse, including, but not limited to: paddling, slapping, kicking, pushing, yelling, biting, duck-walking, line-ups, tuckins, belittling, excessive exercise, beating or physical abuse of any kind, and the potentially forced consumption of any food or beverage that contributes to or causes physical injury, mental harm or personal degradation.
C. Sleep deprivation (activities that deprive prospective and/or current students and/or members of the opportunity of a minimum of six hours sufficient sleep each day).
D. Encouraging or forcing use of alcohol or drugs.
E. Any type of student club/organization scavenger hunt, quest, road trip or other activity that would physically or psychologically endanger prospective and/or current students and/or members or others.
F. Stroking or physically touching in an indecent or inappropriate manner. See Sexual Harassment Policy 5.1.8
G. Student club/organization activities that subject prospective and/or current students and/or members or others to public nuisance or spectacle.
H. Aiding or abetting theft, fraud, embezzlement of funds, destruction of public, personal or private property, or academic misconduct.
I. Being required to wear odd or look-alike apparel that contributes to or causes physical injury, mental harm or personal degradation.
J. Personal services that contribute to or cause physical injury, mental harm or personal degradation.
8. Alleged violations of this regulation by students or student organizations can be reported to the vice president of student affairs' office for investigation by any member of the college community. The vice president of student affairs' office will investigate the complaint in accordance with the student disciplinary code, all other college and MCCCD policies, and local and state laws.

Alleged violations of the MCCCD hazing prevention regulation or interference with an investigation under this regulation by students or student organizations are subject to sanctions under the student disciplinary code.

The student disciplinary code shall govern all proceedings involving such a complaint. Decisions arrived at as outcomes of the proceedings shall be final, pending the normal appeal process.
9. Alleged violations of the MCCCD hazing prevention regulation by any faculty or staff member can be reported to the vice president of student affairs' office for investigation by any member of the college community. The vice president of student affairs' office will investigate the complaint in accordance with college and MCCCD policies, and local and state laws.

Any MCCCD faculty or staff member who knowingly permitted, authorized or condoned the alleged hazing activity is subject to disciplinary action in accordance with college and MCCCD policies, and local and state laws.
10.If the vice president of student affairs' office receives a report or complaint of an alleged hazing activity involving physical injury, threats of physical injury, intimidation, harassment or property damage, or any other conduct that appears to violate Arizona state law, the college will report such conduct to the appropriate college safety office. The said college safety office will investigate, respond to and report on the alleged hazing activity in accordance with all college, district, local, state and federal guidelines, policies and laws.
11. Should the proceedings outlined above substantiate an occurrence of hazing activity-where students or student organizations knowingly permitted, authorized or condoned the hazing activity-the college can recommend the following sanctions against student clubs/organizations:
A. CENSURE: Censure can include the required completion of a program designed with the intent of eliminating the hazing activity. The programs will be devised with the cooperation of all involved parties and monitored by the vice president of student affairs' office.
B. PROBATION: The student club(s)/organization(s) will be placed on probation for a specified period of time. Conditions of probation will be determined by the vice president of student affairs' office and outlined in writing to the student club(s)/organization(s). The probationary term will be monitored by the vice president of student affairs.
C. SUSPENSION: The student club(s)/organization(s) will be suspended. The terms of the suspension can be defined in the sanction, including criteria the student club(s)/organization(s) must meet within a specified time to be considered for admission or renewal of college recognition status.
D. REVOCATION: The student club(s)/organization(s) will have its status revoked, with the loss of all college associations, recognitions and
privileges. The national or international office of an organization, if so affiliated, will be requested to revoke the charter of an organization.
12. The MCCCD hazing prevention regulation is not intended to prohibit or sanction the following conduct:
A. Customary athletic events, contests or competitions that are sponsored by the college or MCCCD.
B. Any activity or conduct that furthers the goals of a legitimate educational curriculum, a legitimate co-curricular experience or a legitimate military training program.
13. For the purposes of the MCCCD hazing prevention regulation:
"Organization" is defined as an athletic team, association, order, society, corps, cooperative, club or other similar group that is affiliated with MCCCD, whose membership consists primarily of students enrolled at MCCCD and that may also be classroom-related or co-curricular in nature.

## Students with Disabilities (AR 2.8)

2.8.1

## Eligibility for Accommodations \& Required Disability Documentation

This policy is intended to specify the disability documentation required that will qualify Maricopa County Community College District (MCCCD) students for reasonable and appropriate academic adjustments through each college's Disability Resources and Services (DRS) office.

Only accommodations granted by the respective college DRS office and communicated to faculty through a Faculty Notification Letter (FNL) will be recognized by the District as approved accommodations for students with disabilities.

Faculty are not required to provide reasonable accommodations/academic adjustments to students with disabilities unless the student has registered with DRS and engages in the interactive process.

## I. General Eligibility Requirements

1. To receive services from the DRS, a student must be admitted and enrolled as an MCCCD student.
2. The student must provide the DRS office with documentation of a qualifying disability that verifies the nature and extent of the disability prior to receiving any accommodation or academic adjustment.
a. Any of the following submitted by an individual seeking admission to MCCCD is sufficient to establish that the individual is an individual with a disability:
3. Documentation that the individual has had an individualized education program in accordance with Section 614(d) of the Individuals with Disabilities Education Act, including an individualized education program that is not current on the date of the determination that the individual has a disability. MCCCD may ask for additional documentation from an individual who had an individualized education program but who was subsequently evaluated and determined to be ineligible for services under the Individuals with Disabilities Education Act, including an individual determined to be ineligible during elementary school.
4. Documentation describing services or accommodations provided to the individual pursuant to a Section 504 plan as defined in Section 15-731.
5. A plan or record of service for the individual from a private school, a local education agency, a state educational agency or an institution of higher education provided in accordance with the Americans with Disabilities Act of 1990.
6. A record or evaluation from a relevant licensed professional finding that the individual has a disability.
7. A plan or record of disability from another institution of higher education.
8. Documentation of a disability due to service in the uniformed services.
b. If a student does not have documentation, they are still required to follow the application and intake process, which includes meeting with a DRS representative and participating in the interactive process. Additional documentation may be required to establish the need for an academic adjustment/accommodation after a student has been identified as a student with disabilities (see Section IV(f)).
c. Provisional accommodations may be granted to a student by DRS to assist students while they collect appropriate documentation to support their eligibility for accommodations/academic adjustments. Such provisional accommodations must not exceed thirty (30) days, unless such extensions are granted due to extenuating circumstances. In these
cases, an additional thirty (30) days of provisional accommodations may be granted. Any extension request beyond the additional thirty (30) days must be reviewed by the District ADA/504 Coordinator. Such extension must be based on extenuating circumstances beyond the control of the requesting student, and is not guaranteed.

## II. Who is Eligible for Services

1. To be eligible for DRS support services, a student must have a disability as defined by federal law (Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and the Americans with Disabilities Act Amendments Act of 2008 (ADAAA).
2. An individual with a disability is a person who has a physical or mental impairment which substantially limits one or more major life activities. These persons are protected by Section 504 of the Rehabilitation Act and the Americans with Disabilities Act. Individuals with a record of such an impairment and individuals who are regarded as having such an impairment are also protected by these federal laws.
3. The definition of "disability" in Section 504 and the ADA should be interpreted to allow for broad coverage.

## III. Definitions

1. Academic Adjustment means: a modification of a non-essential academic requirement, an examination, or an institutional rule that is necessary to provide access to the academic and educational environment. Academic adjustments may include changes in the length of time permitted for completion of degree requirements, substitution of specific courses required for the completion of degree requirements, and adaptation of the manner in which specific courses are conducted. Academic adjustments may not substantially or materially alter the course modality, curriculum, competencies or degree requirements.
2. Accommodation means: an alteration of environment, curriculum format, or equipment that allows a student with a disability to gain access to content and/or complete assigned tasks. Accommodations allow students with disabilities to pursue a regular course of study. Since accommodations do not alter what is being taught, instructors should be able to implement the same grading scale for students with disabilities as they do for students without disabilities.

Examples of accommodations include, but are not limited to, sign language interpreters for students who are hearing impaired, computer text-to-speech, computer-based systems for students with visual impairments or dyslexia; extended time for students with fine motor limitations, visual impairments, or learning disabilities, and large-print books and worksheets for students with visual impairments.
3. Current Documentation means: documentation of a diagnosed physical or mental impairment that is dated within 5-7 years. Adult norms must be used for all testing provided as documentation.
4. Major Life Activities include, but are not limited to: functions such as caring for one's self, performing manual tasks, seeing, hearing, eating, sleeping, walking, standing, lifting, bending, speaking, breathing, learning, reading, concentrating, thinking, communicating and working. Major life activities also include major bodily functions such as functions of the immune system, normal cell growth, and digestive, bowel, bladder, neurological, brain, respiratory, circulatory, endocrine, and reproductive function.
5. Mental Impairment means: any mental or psychological disorder, including but not limited to, intellectual disabilities (intellectual developmental disorder), organic brain syndrome, emotional or mental illness, specific learning disabilities, post-traumatic stress disorder, depression and bipolar disorder. The phrase substantially limits must be interpreted without regard to the ameliorative effects of mitigating measures, other than ordinary eyeglasses or contact lenses. Mitigating measures are things like medications, prosthetic devices, assistive devices, or learned behavioral or adaptive neurological modifications that an individual may use to eliminate or reduce the effects of an impairment. These measures cannot be considered when determining whether a person has a substantially limiting impairment. An impairment that is episodic or in remission is a disability if, when in an active phase, it would substantially limit a major life activity. For example, a student with bipolar disorder would be covered if, during manic or depressive episodes, the student is substantially limited in a major life activity (e.g., thinking, concentrating, neurological function, or brain function).
6. Physical Impairment means: a physiological disorder or condition, a cosmetic disfigurement, or an anatomical loss, that affects one or more of the following body systems: neurological; musculoskeletal; special sense organs (which would include speech organs that are not respiratory such as vocal cords, soft palate, tongue, etc.); respiratory, including speech organs; cardiovascular;
reproductive; digestive; genitourinary; hemic and lymphatic; skin; and endocrine. Examples include, but are not limited to, orthopedic, visual, speech, and hearing impairments, cerebral palsy, epilepsy, muscular dystrophy, multiple sclerosis, cancer, heart disease, Diabetes, HIV (symptomatic or asymptomatic), tuberculosis, drug addiction, and alcoholism.

## IV. Procedures

1. General Procedures
a. The DRS office alone is responsible for evaluating documentation and determining eligibility and reasonable academic adjustments/ accommodations.
b. Any instructor, academic staff member, or support staff (i.e., admissions of financial aid employees) who receives a request from a student for accommodations/academic adjustments due to a disability must refer the student to the college's DRS office.
c. All requests for academic adjustments/accommodations shall be considered on an individual, case-by-case basis and all reasonable and appropriate requests for academic adjustments/accommodations from eligible students shall be considered by DRS. DRS may exercise its right to require additional documentation in support of a request for academic adjustment/accommodation.
d. Academic adjustments/accommodations are determined by the DRS Office through an interactive exchange (the interactive process) with the eligible student. The interactive exchange may continue during the course of the year and may involve faculty members' input regarding the terms and conditions of the course or program of study. Accommodations/academic adjustments in the classroom environment shall require participation of course faculty.
e. MCCCD is not required to provide "best" or "most desired" accommodations, but rather a reasonable accommodation sufficient to provide the eligible student equal access to the educational environment/activities.
f. MCCCD shall continue the interactive process to establish a reasonable accommodation for an individual pursuant to Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of

1990 until it finds an accommodation or accommodations that meet the needs of the individual and do not impose an undue burden on college/district.
2. Material Alteration of class or certification requirement
a. If a faculty member believes the DRS approved academic adjustment/ accommodation would alter an essential academic course competencies, curriculum, or a licensing requirement, the instructor shall meet with the DRS office as part of the interactive process. In the event this issue was not previously addressed in the interactive process, a conversation with DRS should take place within five (5) days of the faculty member's receipt of the Faculty Notification Letter outlining the approved academic adjustment/accommodation. The Parties will attempt to resolve the concern.
b. If the faculty member's concerns are not resolved after the meeting with the DRS Manager, the faculty member and the DRS Manager will meet with the Chief Academic Officer, or designee, and the District ADA/504 Coordinator to resolve the concern. This meeting should take place within three (3) days of the meeting between the DRS Manager and the faculty member. The Chief Academic Officer's decision is final.
c. Any change in the DRS Office's initial recommendation resulting from the meeting with the Chief Academic Officer will be communicated to the student by the DRS Office and the interactive process will continue in an effort to provide reasonable and appropriate academic adjustments/accommodations.

## V. Rights and Responsibilities

1. Students served by Disability Resources and Services have the right:
a. to an equal opportunity to access course information and materials
b. to an equal opportunity to participate in and benefit from the college community
c. to choose whether or not to disclose the nature of their disability to their professor(s). The information the student provides to DRS is protected by FERPA.
d. to request reconsideration of accommodation determinations if dissatisfied with the granted accommodations because they believe their disability(ies) is/are not being properly accommodated or if they believe they have been discriminated against during the interactive process.
2. Students served by Disability Resources and Services Responsibilities:
a. Self-identify to DRS as having a disability and provide accurate, recent, and timely documentation.
b. Check MCCCD email and/or DRS Connect portal for updates and announcements.
c. Request accommodations each semester in a timely manner and understand that a late request does not constitute retroactive adjustments.
d. Notify DRS if classes are dropped or added.
e. Ensure that instructors have received the Faculty Notification Letter once it has been issued through DRS Connect.
f. Communicate directly with DRS regarding exam accommodations, such as taking exams in the testing center, and stay in communication about the time and place for such exams.
g. Contact DRS in a timely manner if having any difficulty securing or arranging accommodations.
h. Promptly return any borrowed or assigned equipment (as an accommodation) to DRS when it is no longer needed.
i. If approved for note taking or audio recording services, understand that these services are for personal use only and may not be shared. In addition, the student must understand that you must be present in class to receive these services.
j. Understand that requesting accommodations does not mean that the student's request will be approved.
k. Meet the same standards-academic, technical, performance, and behavioral-expected of all Maricopa County Community College students.
3. Accommodations may be granted on a provisional basis ( 30 days). This may be based on the need for additional documentation. In these cases, the student will need to update their documentation to receive accommodations beyond the 30 days. The student must understand that approval will be based on a review of the new documentation and there is no guarantee that the provisional (or any) accommodations will be approved.
m . Understand that faculty are not required to provide any accommodation that fundamentally alters the nature of their course or lowers the academic standards.

## VI. General Disability Documentation Guidelines

Physical Disabilities
Maricopa County Community College District, Disability Resources and Services will accept current diagnoses of physical disabilities that are based on appropriate diagnostic evaluations administered by trained and qualified (i.e., certified and/or licensed) professionals (e.g., medical doctors, ophthalmologists, psychologists, neuropsychologists, audiologists).

Learning Disabilities
Maricopa County Community College District, Disability Resources and Services will accept diagnoses of specific learning disabilities that are based on comprehensive, age-appropriate, psychoeducational evaluations that demonstrate current functional limitations of the disability.

The assessment must be administered by a trained and qualified (i.e., certified and/or licensed) professional (e.g., psychologist, school psychologist, neuropsychologist, educational diagnostician) who has had direct experience with adolescents and adults with learning disabilities, including all battery scores in addition to evaluative notes.

Attention Deficit Hyperactivity Disorder (ADHD)/Attention Deficit Disorder (ADD)
Maricopa County Community College District, Disability Resources and Services will accept current diagnoses of ADHD that are based on age-appropriate, diagnostic evaluations, administered by trained and qualified (i.e., certified or licensed) professionals (e.g., psychiatrists, psychologists, or neuropsychologists). Submitted documentation must demonstrate current functional limitations of the disability.

Psychiatric Disabilities
Maricopa County Community College District, Disability Resources and Services will accept current diagnoses of psychiatric disabilities that are based on comprehensive and appropriate diagnostic evaluations completed by trained and qualified (i.e., licensed or certified) professionals (e.g., psychologists, psychiatrists, neuropsychologists, school psychologists).

Submitted documentation must demonstrate current functional limitations of the disability.

## VII. Additional Documentation Guidelines and Resources

The Maricopa County Community College District, Disability Resources and Services can provide a "Disability Verification Form" that can be completed by a trained and qualified professional, or the professional may choose to submit a letter. The letter must be on letterhead, with date and signature (including license number, if applicable), and must include the following:

1. a diagnostic statement identifying the disability (including the date of the diagnosis)
2. current severity/impact of the disability (mild/moderate/severe)
3. an assessment of major life activities that are impacted by the disability (e.g., learning, concentration, class attendance, social interactions, reading, walking, etc.) and
4. specific recommendations for accommodations. The DRS office alone is responsible for evaluating documentation and determining eligibility and reasonable academic adjustments/accommodations.

## VIII. Request for Reconsideration and Grievance Procedure

1. Request for Reconsideration
a. If a student is unsatisfied with either the academic adjustments/ accommodations granted by the DRS office or the denial of academic adjustments/accommodations, the student should submit in writing to the respective college DRS manager/director the specific reason(s) they are unsatisfied and the redress they seek. The DRS manager/director will respond to this communication within five (5) business days. The communication should outline the manager/director's response as well as
if there has been a determination that an adjustment or change of accommodation status is warranted.
b. If the student is still dissatisfied with their academic accommodations or the denial of their accommodations, the student may submit a formal request for reconsideration of accommodation to the accommodation review committee (ARC).
2. The request for reconsideration must be made in writing within ten (10) business days of the mailing of the DRS response to the initial request for reconsideration.
3. This written request should be delivered to the district ADA/504 coordinator and must include a statement of desired outcome. In reviewing a request for reconsideration, the ARC will rely on the documentation available to the DRS at the time of the initial decision in making accommodation determinations.
4. The ARC shall consist of two (2) DRS managers from colleges unaffiliated with the student, and one equal opportunity \& title IX regional program director.
c. The ARC will respond to students within ten (10) business days of the district ADA/504 coordinator receiving the request for reconsideration.
d. The ARC may uphold the original accommodation determination or may return the matter to the granting college's DRS team to revisit the interactive process. The decision of the ARC shall be final. Any changes to accommodations will be communicated to the student by the DRS office. Accommodations are not retroactive.
5. Grievance Procedure
a. If a student believes they have been subject to unlawful discrimination based on their disability, the student may file a complaint under the Discrimination Complaint Procedures for Students.

## AMENDED through the Administrative Regulation Process, June 12, 2023

### 2.8.2

## Eligibility of Students Taking Reduced Course Loads

Although any student may register for fewer than twelve credit hours, a student with a disability may request a reduced academic load as a reasonable and appropriate accommodation. A college Disability Resource Services (DRS) professional may certify that a student who is afforded a reduced academic load as an accommodation for a disability shall nevertheless be deemed a fulltime student. Such certification shall be solely to enable the student to seek eligibility for health
insurance benefits and to seek eligibility to comply with mandates of the National Junior College Athletic Association. The college DRS professional will certify that a student may be deemed a full-time student as provided under this regulation only on a semester-by-semester basis.

The appropriate college offices will receive documentation of the DRS professional's certification from the professional or the student. An incoming student may apply for such certification upon acceptance to the college. Requests for certification must be made prior to the beginning of each semester. Every attempt will be made to accommodate these requests.

The following criteria also apply:

1. Students taking a reduced course load must register for at least 6 credit hours (based on DRS approval) during the regular fall and spring semesters. It is recommended that students register for at least three (3) credit hours during the summer to offset the impact of academic eligibility.
2. Students taking a reduced course load must maintain satisfactory academic progress standards as defined by the College catalog.
3. The reduced credit load may result in an adjusted financial aid package. There may be additional ramifications including, but not limited to, extra time to complete college, insurance coverage, Vocational Rehabilitation funding, etc.
4. Eligibility for Federal Stafford Loans may be reduced according to the total number of credit hours taken in the full academic year. A student, taking a reduced course load, must be at least half time in a semester ( 6 credits) in order to receive a Stafford Loan.
5. The amount of Federal Financial Aid (Title IV) awarded is based on the actual number of credit hours taken.
6. Requirements for continuation of funding through Vocational Rehabilitation may differ. The student must contact his/her VR counselor to determine how a reduced course load will impact their funding.
7. The National Junior College Athletic Association (NJCAA) has published standards in regard to the designation of Certified Disabled Student-Athlete in Article V Section J of the NJCAA bylaws. This procedure addresses the NJCAA criteria for reduced course loads.

## Application Process

1. Applications for reduced course loads must be submitted to the Disability \& Services professional with supporting documentation. Requests must be made prior to the beginning of each semester.
2. Supporting documentation must include a diagnostic evaluation from an appropriate professional. The documentation must meet the guidelines set forth by the Maricopa Community College District's Documentation Policy in order to evaluate the current impact of the disability in regards to the request. Students are required to complete an application form for this status every semester, but do not need to re-submit their documentation. Continuation of this status is not automatic. Each case will be reevaluated at the end of the semester to determine if this accommodation is still appropriate.
3. Students requesting a reduced course load should consult with their academic advisor regarding the consequences of this status for making progress toward graduation requirements and eligibility for various academic distinctions and designations.
4. Students registered in occupational and/or academic programs that have specific block formats will not be considered for reduced course loads.
5. Students who are approved for a reduced course load will be required to sign the Reduced Course Load Approval Form (see Appendix S-10), which includes a statement acknowledging that he or she has reviewed the consequences that go with reduced load status and accepts them.
6. When a reduced course load status is granted by the Disability Resources \& Services professional, a copy of the Reduced Course Load Approval Form will be sent to the appropriate individuals.

### 2.8.3

## Technology Accessibility

The Maricopa Community College District is committed to ensuring equal access to information, programs, services and activities through its technologies, Web pages, and resources both in the academic and work environments. This regulation establishes that Electronic and Information Technology (EIT) that are used to conduct the business of the Maricopa Community Colleges shall adhere to established accessibility standards and guidelines.

## Veterans Services (2.9)

The Maricopa Community Colleges' veterans' services offices act as liaisons with the Department of Veterans Affairs (VA) and the state approving agency. Each program must be approved by the state approving agency. Students may be eligible to receive educational benefits if they are registered in courses that apply to the student's approved programs. Application forms, counseling, advisement, tutoring, and priority enrollment are available for students who are eligible for veteran's educational benefits. Students applying for veteran's educational benefits should allow eight to ten weeks before receiving benefits. The amount of benefits awarded is determined by the Department of Veterans Affairs, and is based on the number of credit hours or clock hours for which a student is enrolled and the length of the enrollment period for each course.

## Prior to enrolling, eligible service members receiving tuition assistance must speak with an Education Services Officer (ESO) or counselor within their military service branch/ organization.

Veteran's benefits available:

- Chapter 30 - Montgomery GI Bill®
- Chapter 31 - Veteran Readiness and Employment (VR\&E)
- Chapter 32 - VEAP Program
- Chapter 33 - Post 9/11 GI Bill® \& Transfer of Eligibility to Dependents (TOE)
- Chapter 35 - Survivors and dependents of deceased $/ 100 \%$ disabled veterans
- Chapter 1606 - Montgomery GI Bill®, Selected Reserve
- Chapter 1607 - REAP Reserve Educational Assistance Program

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at https://www.benefits.va.gov/gibill.

Covered individuals (as defined in 38 U.S.C. § 3679) utilizing Chapter 33 or Chapter 31 VA education benefits may attend or participate in a program of study during the period beginning on the date the individual provides the educational institution a Certificate of Eligibility (COE), a Statement of Benefits obtained from eBenefits, or a purchase order for Chapter 31, and ending on the earlier of the following dates:

1. The date upon which payment from the VA is made to the institution;
2. 90 days after the date the institution certified tuition and fees following the receipt of the Certificate of Eligibility.

No penalty, including the assessment of late fees, and/or the denial of access to classes or other institutional facilities will be imposed on the individual due to the delayed disbursement funding from VA under Chapter 31 or 33.

It is the student's responsibility to notify the office that serves veterans at their campus regarding any change in enrollment, address, program of study, enrollment at another institution, or any other change that may impact their veteran's educational benefits. Those students receiving benefits must follow the VA academic progress policy to continue to receive benefits.

## Academic Progress Policy for Students Receiving Veteran's Educational Benefits

Department of Veterans Affairs regulations require that all persons using any type of veteran educational assistance program make satisfactory academic progress toward achievement of their educational objective (program of study). A student who does not meet the minimum standards of 2.0 upon completion of 12 or more credit hours will be placed on probation, at which point the student will have no more than two semesters in which to improve academic standing to acceptable. At this point, if satisfactory academic progress has not been demonstrated, veteran educational benefits will be terminated. Benefits may be resumed when the student raises the cumulative grade point average to the required minimum standards or demonstrates
the ability to meet these standards through the approval of a written appeal. For appeal procedures, contact the office that serves veterans at your campus.

For additional details and information regarding veteran's educational benefits, contact the office that serves veterans at your campus.

## Distance Learning:

The course content and competencies for distance learning classes are the same as courses offered in-person or in a hybrid format. The courses offered in this format lead to completion of MCCCD degrees and/or certificates of completion. Colleges use Learning Management Systems (LMS) like Canvas and RioLearn for online offerings. These portals are used for both hybrid and online classes. Students must use their Maricopa Enterprise ID and password to access the portal. The link to the portal is provided on the college home page and on www.maricopa.edu/students, the district's website for student access to Maricopa tools. Maricopa-assigned student email addresses are used for communicating with students within the tools. Students are also able to communicate with the instructor through the LMS, via Maricopa email or by phone.

## Externship Programs:

The Maricopa Community College's official district course descriptions for credited experiential learning opportunities (Internships, Externships, Practicums, and Clinicals) state the amount of hours required in order for a student to receive college credit. The descriptions also indicates if a maximum amount of credit is allowable for any given experiential learning opportunity. Each course that includes an experiential learning opportunity is assigned a Maricopa instructor of record who is responsible for ensuring that the student completes the required hours and assignments in order to receive credit. Additionally, the instructor works extensively with a site supervisor to ensure that the student is making satisfactory progress and meeting the time requirements. the experiential credit process for the student includes the specific course details and learning outcomes, how hours will be tracked, and what is required for grading and course completion. The instructor submits the final grade for the experience. Maricopa's experiential learning process is in compliance with CFR 38 21.4265

A complete list of internship courses, along with course objectives, can be found on the Maricopa Community College's District - Center for Curriculum and Transfer Articulation website, located at: https://asa.maricopa.edu/departments/center-for-curriculum-transfer-articulation.

## Prior Credit Evaluation:

Department of Veterans Affairs requires that all persons using any type of Veteran's educational assistance must have all prior education and training evaluated. Students will be required to request transcripts from all prior institutions, including military training. Without all prior institutions and military training, veteran educational assistance may not be certified. Transcripts will be evaluated and credit will be granted, as appropriate.

## AR 2.10

## Parking and Traffic Regulations

## Traffic Control

The College Safety Department at each district/college facility shall be responsible for the safe and orderly movement of traffic, including pedestrian, bicycle and motorized and non-motorized vehicular.

## 1. Introduction

The operation and parking of a motorized or non-motorized vehicle on campus is a privilege granted by the District Governing Board and is revocable at any time. The Maricopa County Community College District assumes no responsibility for damage to any vehicle and/or for any loss to any vehicle while it is being operated or parked on college property.

1. College Regulatory: The State of Arizona provides the Governing Board, the authority to adopt rules and regulations for the control of motorized or non-motorized vehicles on college property.
2. Authority of Enforcement: The enforcement of all rules and regulations governing the operation of motorized or non-motorized vehicles shall be carried out by the College Safety Department under the direction of the Director of College Safety.
3. On special occasions and in emergencies, parking limitations and restrictions may be imposed or removed as required. The College Safety Department reserves the right to impose any changes as warranted by a particular situation.
4. Lack of familiarity with these rules and regulations does not constitute a defense for failure to comply. It is the responsibility of the operator and/or that person responsible for the vehicle to operate the vehicle safely in full compliance with these regulations. For college locations that require a parking permit, it shall be presumed that a permit holder has a complete understanding of these regulations.

## 2. Vehicle Registration

A college employee or student who operates or parks a motorized vehicle on college property may be required to register the vehicle and secure and display on the vehicle a current college parking permit for a designated parking area. A college president may choose to issue parking permits to only certain classifications of drivers utilizing the campus.

An out-of-state/out-of-county student or college employee who operates or parks a motor vehicle on college property must sign an affidavit at the time of registration specifying that the vehicle complies with ARS 49-542 relating to vehicle emission testing. Vehicles that do not comply with ARS 49-542 will not be granted a permit.

The college may issue color-coded parking permits on the basis of classifications of the registrant. The color of the parking permit indicates the area in which the vehicle may be parked. The permit does not ensure the availability of a parking space, but grants the privilege of parking in a specified area when space is available. A college president may choose not to designate separate parking for employees and students. Students attending a college with unrestricted parking shall be so notified upon receipt of the parking permit.

The college reserves the right to deny the issuance of a vehicle parking permit to any person who owes money to the college/district until the indebtedness is paid in full. Such person shall be denied the privilege of operating and parking his motor vehicle on college property. The action, however, does not relieve any person of any sanctions contained in this publication.

## 3. Parking Regulations

A. Parking may be restricted to vehicles displaying the appropriate permit, seven (7) days a week, twenty-four (24) hours per day.
B. An area posted with short-term parking limits from ten to forty-five minutes may be used for the purpose of conducting short-term business in the facility it primarily services.
C. Parking a vehicle in a designated parking space that displays a disabled parking sign, a painted disabled insignia or both, without a current disabled parking permit issued by the State of Arizona is prohibited. These areas are reserved twenty-four (24) hours daily.
D. Red curbs are no-parking zones. Parking in Red zones, entrances to buildings, driveways, in front of garbage dumpsters, barricades, fire lanes and fire hydrants is prohibited.
E. Driving into and parking in any area not designated for use or closed by the use of barricades, chains, or other vehicle control devices is prohibited.
F. Parking a vehicle on or blocking pedestrian paths, sidewalks, crosswalks, striped safety zones, and on bicycle paths is prohibited.
G. Parking a vehicle in such a manner as to impede or obstruct properly parked/moving vehicles is prohibited.
H. Parking a bicycle or motorized cycle in areas other than those designated for such parking is prohibited.
I. Where parking stall lines are marked, operators must park their vehicles within the stall lines. Parking outside such stall lines is prohibited. In diagonal spaces, vehicles must be parked facing the center line. No pulling through or backing into spaces is permitted.
J. Temporary absence of a sign at the entrance of a parking area does not signal the removal of restrictions or reservations upon the area. If reservation hours are altered or restrictions are changed, notices will be posted and the change will be effective immediately.

## 4. Permits

A. Multiple Vehicles: Employees or students who use more than one vehicle must obtain a permit for each vehicle, if permits are issued for the college/location that they are attending.
B. Service Vehicles: College service vehicles are defined as those owned or recognized by the college and properly designated.
i. Service vehicles are restricted to those parking stalls designated by signs. In an extenuating service situation or unavailability of a service parking area, service vehicles may park in any nonreserved parking stall or outside such space as not to obstruct pedestrian walkways or vehicular movement or cause unnecessary damage or destruction of college property (sidewalks, vegetation, etc.). Vendors that park in areas not designated for general parking are responsible for contacting college safety for prior written or verbal approval.
ii. It is prohibited for any college service vehicle to park in or block any disabled access or parking space at any time unless it is on a bona-fide emergency basis.

## 5. Visitors

Visitors must park their vehicles in a designated visitor parking area if such parking area is available. Vehicles that bear a valid college permit may not park in visitor parking areas. Employees attending other colleges or the district office for business purposes are not considered to be visitors.

Visitor's parking in authorized areas or in an unauthorized manner will be warned or cited regarding their violation. Continued violation may result in the vehicle being towed and impounded and a fee charged for the cost of impoundment and storage.
6. Permit Display

College parking permits, if issued, must be affixed to vehicles in the following manner:
A. Regular Permits:
i. On autos/trucks, all permanently affixed permits shall be placed on either the lower left front windshield (driver's side) or lower left back windshield (driver's side). On motorized cycles, the permit shall be affixed where it can be seen without difficulty on the front fender.
B. Temporary Permits:
i. Temporary permits shall be placed on the dashboard so they may be easily viewed from the outside.

## 7. Removal/Replacement/Exchange Permits

A. A parking permit, if issued, must be replaced if the original becomes mutilated or obliterated.
B. A parking permit is not transferable to another vehicle or another person.
C. Parking permits must be removed from a motor vehicle under the following conditions:
i. Change of ownership.
ii. Termination of association of the owner and college.
iii. Termination of the period for which permit is issued.
iv. Receipt of a parking permit superseding a prior one.
v. Change of vehicle requiring a permit replacement.

## 8. Traffic Regulations

A. Except for college service vehicles, driving motor vehicles, motorized cycles, and bicycles on pedestrian paths and sidewalks is prohibited.
B. The maximum speed limit in all college parking lots is 15 mph .
C. All accidents involving vehicles that occur on college property must be reported to the College Safety Department office.
D. All state laws governing the movement and operation of motor vehicles are adopted by the Governing Board for control of vehicles on college property.

## 9. Bicycle Regulations

A. Bicycle parking is restricted to the racks provided.
B. A bicycle parked on a sidewalk or at an entrance to or in a building, or secured to a tree, light pole, sign post, or any other unauthorized area shall be subject to impoundment.
C. Bicycles must comply with Arizona traffic laws and campus traffic regulations. Every bicycle used from dusk to dawn must be equipped with a white headlight and a rear reflector (ARS §28-817).The college maintains the right to cut locks, chains, and/or cables for the purpose of impounding any bicycle parked or stored in violation of these regulations at the owner's expense.

## 10. Other Non-Pedestrian Device Regulations <br> Each college reserves the right to limit or prohibit the use of skateboards, skates, rollerblades, horses or other transportation Devices.

## 11.Sanctions

Parking Fines (Parking fines are adopted as part of the Tuition and Fee Schedule and are incorporated here by reference. Fee amounts are subject to change upon adoption of the schedule for the new fiscal year.)

| Sanction | Fine |
| :--- | :---: |
| Displaying an altered or substituted permit. | $\$ 50.00$ |
| Falsifying information on registration application. | $\$ 50.00$ |
| Parking in Fire Lane. | $\$ 50.00$ |
| Violating disabled parking stall or access. | $\$ 50.00$ |
| Failure to register a vehicle and display a parking permit. | $\$ 30.00$ |
| Parking in an unauthorized parking area | $\$ 25.00$ |
| Removing barricade or failure to obey vehicle control device | $\$ 25.00$ |
| Obstructing a properly parked/moving vehicle | $\$ 15.00$ |
| Parking beyond posted time limit | $\$ 15.00$ |
| Parking by a college employee or student in a visitor area | $\$ 15.00$ |
| Parking on or blocking a pedestrian path | $\$ 15.00$ |
| Parking outside stall lines. | $\$ 15.00$ |
| Pulling through or backing into an angled parking space | $\$ 15.00$ |
| Expired parking permit | $\$ 15.00$ |
| Improper display of permit (i.e., not affixed to window) | $\$ 15.00$ |

## All fines are doubled if not paid within 15 working days.

A. Additional Sanctions: Employees and students violating traffic regulations are also subject to institutional discipline, vehicle towing and impoundment, withdrawal or suspension of parking privileges, encumbrances of records, or both, and oral or written reprimand. All fines are doubled if not paid within fifteen (15) working days
B. Habitual or Aggravated Violations: Habitual or flagrant disregard of vehicle control regulations by students is grounds for suspension or expulsion from the institution. Habitual or flagrant continued disregard of parking regulations by a college employee may affect the individual's salary and continuation of employment (ARS §15-1449C). If a person fails to respond to a notice of violation of a parking and traffic regulation, a report may be sent to the appropriate Dean or Director for action. A report may also be sent to the Arizona department of revenue debt setoff program and the student or employee's Arizona tax refund may be garnished.

## 12. Procedures for Hearings and Appeals

When a notice of violation of the parking and traffic regulations is issued, the recipient shall either pay the penalty directly to the cashier's office, or file a written appeal with the college safety department.
A. Payment: All monetary penalties shall be paid to the cashier in the college business office. Payment may be made by mail or in person. Mailing instructions and penalties are listed on the citation. No violation will be considered cleared until the correct amount has been paid. If a violator loses the copy of the citation, information concerning the citation must be obtained from the College Safety Department office.
B. Unpaid Citations: A citation unpaid after fifteen (15) working days following the day the notice was issued shall be considered delinquent and doubled, unless a written appeal has been made to the college safety department office within this time period.
The Maricopa County Community College District utilizes a registration hold system to enforce academic and fiscal responsibilities. A hold prevents a student with unpaid citations from registering for classes and from receiving copies of transcripts and records. This hold is released only upon payment of delinquent citations at the college business office. Delinquent citations held by a college employee may affect salary and continued employment (ARS §15-1449C). If a person fails to respond to a notice of violation of a parking and traffic regulation, a report may be sent to the appropriate Dean or Director for action.
All citations issued to a vehicle will be charged against the student, employee, or the registered owner of the vehicle.
C. Appeal: A person who receives a college parking or traffic violation notice may appeal the citation in the following manner:
A party wishing to appeal a citation must do so within 15 working days from the date of the citation, or the citation fine will be doubled and all rights of appeal will be lost.

Step 1: if the party wishes to appeal, the citation or a copy of the citation must be attached to the completed written appeal form. The parking and traffic appeals officer will review all appeals. Appeal forms are available at the college safety department. If the citation is appealed and the citation is upheld, payment must be received within twenty-one (21) working days of the appeals letter notification date or doubling of the citation amount will occur.
Step 2: if the party receives an unfavorable decision from the parking and traffic appeals officer and wishes to appeal further to the college appeals board, the written appeal, the appeals officer's decision, a paid receipt equal to the amount of the penalty, and all enclosures must be returned to the college safety department
Step 3: appeals board. The above enclosures will be held for the next appeals board. The appeals board is composed of representatives of faculty, staff and students. The parking and traffic appeals officer will schedule a hearing with notice to the party to appear and be heard if he/she so chooses. At the hearing, the board may either approve, reverse or modify the decision of the parking and traffic appeals officer. If the party fails to appear for the hearing, the original decision will stand. A refund of the payment in accordance with the decision will be processed for the party by the college business office
D. Judicial Review: Any person who has received an unfavorable administrative ruling from the appeals board has the right to have the ruling reviewed by the Maricopa County Superior Court in accordance with the provisions of Title 12, Chapter 7, Article 6 of the Arizona Revised Statutes. The Maricopa County Community College District reserves the right to amend the regulations at any time to promote and ensure fair and safe usage of the property and facilities under the control and jurisdiction of the college.

Notices of change (s) will be published in the local campus media and effective immediately.

## Copyright Regulations (AR 3.2)

1. It is the intent of the Governing Board of the Maricopa County Community College District to adhere to the provisions of the U.S. Copyright Law (Title 17, United States Code Section 101 et seq.). Though there continues to be controversy regarding interpretation of the Copyright Law, this policy represents a sincere effort by the Board to operate legally within the District.
2. The Governing Board directs the Chancellor or his designee(s) to develop and distribute to employees' guidelines that (1) clearly discourage violation of the Copyright Law and (2) inform employees of their rights and responsibilities under the Copyright Law.
3. Each college president or provost and the Chancellor shall name an individual(s) at each district location who will assume the responsibilities of distributing copyright guidelines, act as a resource person regarding copyright matter and provide training programs on current copyright laws.
4. Employees are prohibited from copying materials not specifically allowed by the (1) copyright Law, (2) fair use guidelines, (3) Licenses or contractual agreements, or (4) other permission.
5. The Governing Board disapproves of unauthorized duplication in any form. Employees who willfully disregard this Board policy and/or the aforementioned copyright guidelines do so at their own risk and assume all liability for their actions.
6. In order to assist employees and students in complying with the Copyright Law, appropriate notices shall be placed on or near all equipment capable of duplicating copyrighted materials.

## AR 3.4

## Recording of Faculty Lectures

1. MCCCD acknowledges that faculty members are, by law, afforded copyright protection in their classroom lectures and, therefore, may limit the circumstances under which students may record (audio/visual) their classes.
2. Each faculty member shall inform their students in the course syllabus or other course introductory material of their policy with regard to recording of class lectures. Failure to do so will accord students the right to record lectures. A lecture is defined as anything upon which a student is tested or that is part of the curriculum or course content whether in person, virtual, or pre-recorded. A restriction on recording does not apply if the recording is allowed under another policy.
a. Students, regardless of whether they have permission or not from the faculty member to record class lectures, may not reproduce or otherwise share and/or distribute all or part of recorded class lectures and/or activities taking place during class time, without the written consent of the faculty member. (Reproducing includes, but is not limited to, posting any pre-recorded or real time recording of a class lecture-in whole or in part-to any social media platform (TikTok, Twitter, Facebook, Instagram, YouTube, etc.)).
b. Any violation of AR 3.4 (2)(a) may constitute "academic misconduct" prohibited by AR 2.3.11 Academic Misconduct.
3. Students with disabilities that render them unable to take adequate lecture notes are entitled to reasonable accommodation - subject to engagement in the interactive process and a determination of functional limitation as outlined in AR 2.8 Students with Disabilities - to remedy this inability. Approved accommodation may require a faculty member to modify their recording policy for the affected student.

In accordance with Subpart E of Section 504 of the Rehabilitation Act of 1973, a student with a qualifying disability which adversely affects the student's ability to take or read notes may be permitted to audio record class lectures as a reasonable academic accommodation.

In an effort to address faculty concerns for privacy and protection of copyright while still assuring the availability of recording classroom lectures as a reasonable accommodation for students, use of this accommodation is subject to the following conditions:
a. The faculty member must have received the Disability Resource Services (DRS) Faculty Notification Letter specifying the recording of classroom lectures as a granted reasonable accommodation.
b. Such recordings of class lectures are only for the student's personal use in study and preparation related to class.
c. The student must comply with a faculty request to stop recording during discussions, demonstrations, presentations, guest speakers, and situations of a sensitive nature. The faculty member should provide as much notice of these situations as possible in order for the student to coordinate with the faculty member and DRS to have notes taken on the substantive parts of the lecture.
d. The student may not share classroom lecture, or any other recordings made during class time with any other person or in any media or on a public or private platform without the written consent of the faculty member.
e. Information contained in the authorized audio recorded lectures, and any other recordings whether authorized or unauthorized, may be protected under federal copyright laws and may not be published or quoted without the written consent of the faculty and without giving proper identity and credit to speakers, this includes publication via any social media platform, emails, or text messages.
f. The student may not use the authorized recorded lectures, and any other recordings whether authorized or unauthorized, against the faculty
member, other instructors, or students whose classroom comments are recorded as part of the class activity. This provision is subject to the protections under policy and the law.
g. The student will erase all recorded class lectures when they are no longer needed for academic work. Upon written request from the faculty member, the student will return all class recordings to the faculty member for erasure. Faculty members should provide DRS with a copy of the aforementioned written request. Likewise, students are not permitted to post the lectures on any social media platform, website, or learning management system without the instructor's written consent except for communications to the instructor of record.
h. Students who wish to keep recordings beyond the end of the course for future review must obtain written permission from the faculty member.
i. Audio, or any other recordings outside of the aforementioned lectures (including fieldwork, internships, etc.) may be discussed on a case-by-case basis in collaboration with the faculty member, program of study, site manager, and DRS. In clinical/experiential learning placements, the recording of any discussions, lectures, or conversations are never permitted.
j. Students, regardless of whether they have permission or not from the faculty member to record class lectures or any other part of the classroom/class time experience, may not post all or part of recorded class lectures or any other recordings made during class time to any social media platform (TikTok, Twitter, Facebook, Instagram, YouTube, etc.), or otherwise reproduce, share and/or distribute to any other person or party.
k. Any violation of AR 3.4(3) may constitute "academic misconduct" prohibited under AR 2.3.11 Academic Misconduct.

## AR 3.5

## Course Substitution for Students with Documented Disabilities

The Governing Board recognizes the need to accommodate students with documented disabilities to the greatest degree possible without compromising the disabled student's course of study or the integrity of any student's degree. The Governing Board authorizes the concept of course substitutions as a means of accommodation under limited circumstances and directs the establishment of an ADA Academic Council to be named by the Chancellor or his/her designee for the purpose of considering course substitutions for students with documented disabilities. Further, the Board directs the Chancellor or his/her designee to develop procedures that address the circumstances under which a disabled student may request a course substitution and the process for requesting same.


#### Abstract

AR 4.12 Smoke-Free/Tobacco-Free Environment The Maricopa County Community College District is dedicated to providing a healthy, comfortable, and educationally productive environment for students, employees, and visitors. In order to promote a healthy learning and work environment, the Chancellor has directed that the Maricopa County Community College District serve as a total smoke free and tobacco free environment, effective July 1, 2012. Smoking (including the use of "e-cigs") and all uses of tobacco shall be prohibited from all District owned and leased property and facilities, including but not limited to parking lots, rooftops, courtyards, plazas, entrance and exit ways, vehicles, sidewalks, common areas, grounds, athletic facilities, and libraries. Support signage prohibiting the use of smoking instruments and tobacco shall be placed throughout all college and District locations. Continued violations by an employee or student shall be handled through the respective conduct procedures established for employees and students. See also 4.21 Breathe Easy Tobacco Free $\mid$ Smoke Free


## AR 4.13 Alcoholic Beverages - Usage Regulation

This Administrative Regulation prohibits the use of District funds to purchase alcoholic beverages or services related to them except in small amounts to be used in cooking for the District's culinary programs. Additionally, it generally prohibits the presence of alcoholic beverages on premises owned by the District, or those leased or rented by the institution. It permits a few, narrow exceptions to that latter prohibition. The exceptions are not available to the general population of District employees or officials. More importantly, they are established to ensure that the District's actions stay within the boundaries of state law and the District's insurance coverage. Therefore, strict compliance with this regulation is essential.

1. No Funds. No funds under the jurisdiction of the governing board of the District may be used to purchase alcoholic beverages, except for the limited purposes of purchasing small amounts of them for use solely as ingredients in food preparation for classes and at the District's culinary institutes. Alcoholic beverages may not be stored on premises owned, leased, or rented by MCCCD except as provided in Paragraph 8.
2. No Service or Sale of Alcoholic Beverages. The law of the state of Arizona strictly regulates the service, sale, distribution and consumption of alcoholic beverages. In light of that law, the District does not permit alcoholic beverages to be served, sold or distributed on or in the premises owned by the District or
leased or rented by the Maricopa Community Colleges for District-approved educational, fund-raising or other community purposes, except as provided in Paragraphs 3 and 7.
3. Service at District Events on District-owned Property. The Chancellor has the sole authority to approve the service, but not the sale or other distribution, of wine or beer at District events on district-owned property that the Chancellor either sponsors or approves. The only District employees authorized to request the Chancellor's approval are the College Presidents and the Vice Chancellors. Additionally, the law strictly limits the service of wine or beer by the District on District-owned property, and those restrictions are specified in Paragraph 5. Unless approved by the Chancellor in compliance with the law and this regulation, alcoholic beverages may not be served on District-owned property.
4. Event Form Required. A College President or Vice Chancellor who wishes to obtain the Chancellor's approval for the service of wine or beer at a Districtsponsored event on District-owned property shall forward a completed written request to the Chancellor no later than 30 days before the event. The request form is available at: AS-6 - Agreement to Serve Alcohol Part I. On signing the form, the Chancellor will provide a copy of it to the requestor and to the MCCCD Risk Manager. For events that the Chancellor sponsors, he or she will complete the form, sign it and provide it to the MCCCD Risk Manager no later than 10 business days before the event.
5. Service restrictions required by law. An event approved under Paragraph 4 must, by law, comply with the all of the following restrictions: Additionally, beer and wine may only be served by a beverage service contractor whose liquor license with the state of Arizona is in good standing, except as provided in Paragraph 6. The contractor must provide all of the beverages served and well as the servers or bartender. Before the event, the contractor must provide a certificate of insurance that meets the requirements of the District's Risk Manager and that adds the District as an additional insured. The contractor must also agree in writing to indemnify the District regarding the service of the beverages.
A. The only alcoholic beverages that may be served and consumed are wine and beer. Wine consumption is limited to 6 oz . per person, and beer consumption is limited to 24 oz ;
B. The gathering must be by invitation only, and not open to the public;
C. The gathering may not exceed 300 ;
D. Invitees may not be charged any fee for either the event or the beer or wine; and
E. The consumption may only take place between noon and 10:00 p.m.
6. Culinary Institutes. The Chancellor may sponsor or approve an event at one of the District's culinary institutes. Students may serve wine and beer at the
event as part of their class requirements, subject to the limitations of Paragraph 5. Any student serving those beverages must, by law, be 19 years or older.
7. Third-Party Event. The Maricopa County Community College District Foundation and the Friends of Public Radio Arizona may, with the approval of the Chancellor, sponsor an event on District-owned property under this regulation. The City of Phoenix and the Friends of the Phoenix Public Library may also do so, with the approval of the Chancellor, at the joint library on the campus of South Mountain Community College. These third-party, non-district entities are solely responsible for determining the steps that they are required to take to comply with Arizona's alcoholic beverages laws. Additionally, they must comply with the following steps:
A. The entity obtains a liquor license, if required by law, from the Arizona Department of Liquor Licenses and control for each event and fully complies with the laws, rules and other requirements applicable to that license;
B. The entity completes the form available at AS-7 - Agreement to Serve Alcohol Part II. And provides it to the Chancellor for approval along with a copy of the liquor license no later than 30 days before the event, unless the Chancellor approves a shorter period of time in a particular case;
C. The entity provides or currently has on file with the District a certificate of insurance demonstrating that it has liquor liability coverage and that adds the District as an additional insured;
D. The entity agrees in writing to indemnify the District from any claims of any kind arising out of the event;
E. Beer and wine are the only alcoholic beverages served and only served through a beverage service contractor whose liquor license with the state of Arizona is in good standing;
F. The contractor provides all of the beverages served and well as the servers or bartenders;
G. Before the event, the contractor provides a certificate of insurance that meets the requirements of the District's Risk Manager and that adds the District as an additional insured; and
H. The contractor agrees in writing to indemnify the District regarding the service of the beverages.
8. Receipt of beverages; storage. It is not permissible to store wine or beer on premises owned, leased or rented by MCCCD, except as provided in this paragraph. Alcoholic beverages purchased for use in cooking in District culinary courses must be stored in such a way that it is inaccessible to anyone except the Director or designee of the culinary program. For wine and beer to
be used for receptions at the district's culinary institutes, as authorized by this administrative regulation, the following storage requirements apply:
A. Wine and beer to be served may only be brought to MCCCD property no sooner than four hours prior to the event, and remain there no longer than four hours after the event; and
B. Once the wine and beer arrives on MCCCD property, the Director the culinary program shall assign an MCCCD employee to ensure that it is not stolen or that it is not opened until ready to be served.
9. Compliance with law. In compliance with applicable law, any persons planning an event under this administrative regulation are required to familiarize themselves with the pertinent laws and other requirements established by the state of Arizona for the service of alcoholic beverages, particularly those in Arizona Revised Statutes Title 4 (Alcoholic Beverages) Chapters 1 (General Provisions), 2 (Regulations and Prohibitions) and 3 (Civil Liability of Licensees and Other Persons) as well as Arizona Administrative Code Title 19, Articles 1 (State Liquor Board) and 3 (Unlicensed Premises Definitions and Licensing Time-Frames).
10. Residential Housing. Lawful occupants of residential housing under the jurisdiction of the Governing Board, if over the age of 21 years and not otherwise lawfully barred from such practice, may possess and consume alcoholic beverages in the privacy of their respective leased housing facility. Guests of such occupants over the age of 21 years shall have the same privilege. No alcohol is permitted in public areas (nor common areas of a dormitory) at any time.
11.Personal Responsibility. The personal or individual purchase of alcoholic beverages by individuals attending District-approved functions held in places serving alcoholic beverages is a personal and individual responsibility. Administrative discretion shall be exercised in the approval of the location of such activities, as such decision pertains to the nature of the group involved.
11. Miscellaneous Usage Issues. Any issues that are not specifically addressed within this regulation require the review and determination by the Chancellor or Executive Vice Chancellor and Provost on matters related to culinary programs, academic or student affairs.

## AR 4.18

## Consensual Relationships

1. General

The existing Governing Board Policy on Hiring of Relatives prohibits employees from being involved in any employment or key decision that involves a relative. This would include work performance, job assignments, or pay related matters. In that such relationships can create a conflict with the
interests of the Maricopa Community Colleges, and the increased potential for nepotism and favoritism, the same principles also apply in the case of consensual amorous, romantic and/or sexual relationships that occur between employees or between employees and students.

In the work and academic environment, such a relationship that might be appropriate in other circumstances is inappropriate if one of the individuals in the relationship has a professional responsibility toward, or is in a position of authority with respect to, the other, such as in the context of supervision, instruction, coaching, counseling or advisement. An element of power is present in such a context and it is incumbent upon those with authority not to abuse that power. In addition, consensual relationships may yield to third parties the appearance that unfair bias or favoritism towards the student or supervisee is taking place.
A. Definitions
i. Consensual relationships are defined as romantic, amorous and/or sexual relationships between consenting employees or between employees and adult ( 18 years or older) college students currently enrolled at one of the community colleges.
ii. An employee is any individual who is employed by the Maricopa County Community College District (MCCCD). An employee includes an individual who is subject to an established employee job group policy manual, whether regular, full-time board approved, at-will, part-time, and/or temporary. An employee also includes a contract worker (special services employment, request for personnel services) working or serving as an agent or designee on behalf of the MCCCD.
iii. A student is considered to be any person currently enrolled in a credit or non-credit class at one of the colleges or centers within the Maricopa County Community College District.
iv. A vendor is someone who sells or can sell products or services to the Maricopa County Community College District.
v. A recent consensual relationship is considered to be one that has taken place within the past 24 months.
B. Prohibited Conduct
i. An employee shall not maintain, engage in or be involved in a consensual relationship with another employee who is subject to that individual's supervision or with a student that is currently enrolled in the individual's class, or a student whom the individual otherwise instructs, coaches, counsels or advises, or
with a vendor if the employee manages that contract or otherwise exerts influence over the contract.
ii. The Governing Board recognizes that the personal life of its employees is not a concern of the institution, and therefore, this regulation does not seek to prohibit romantic relationships that exist between parties where the context of power-authority between employees or between employees and students is not present; and provided that the relationship does not affect the employee's effectiveness in fulfilling his or her professional obligation. For these instances, appropriate measures should still be taken in order to avoid conflicts of interest from occurring. For relationships that may exist prior to the time that either a student or employee is placed in a situation of instruction or supervision that is considered to be a conflict of interest, the employee(s) involved shall disclose and take immediate measures to avoid the conflict or appearance of conflict.

## 2. Procedures for Disclosure

Employees should first avoid allowing an inappropriate consensual, amorous or sexual relationship to develop with a supervisee or student.
A. Where the employee is already in or has had a recent consensual relationship with a supervisee, the following procedures shall be followed:
i. Immediate disclosure by the employee of the relationship to their supervisor and to the appropriate Vice President or Vice Chancellor in order to ensure that any conflicts of interest have been adequately addressed.
ii. The respective administrator responsible for the department or division shall place the subordinate under alternate supervision when a supervisor under his/her direction has or has had a recent consensual relationship with the employee.
iii. The supervisor shall recuse himself or herself from any discussions or involvement with decisions related to evaluations, promotion, hiring, determination of salary, or continuation of contract or employment.
iv. The respective Vice President or Vice Chancellor shall prepare and retain a report that specifies the appropriate alternate arrangements that have been made to eliminate the conflict of interest. The EEO/AA Office shall be provided a copy of the report along with the employees involved in the relationship.
B. Where the employee is already in or has had a recent consensual relationship with a student prior to enrollment in his or her class, the following procedures shall be followed:
i. The faculty member shall counsel and advise the student not to enroll in his or her course.
ii. The Consensual Relationships Policy will be made available to students via the student handbook and other appropriate communications vehicles.
iii. If it is not possible for a student to enroll in another course, section, or course and section at another college due to a requirement for completion of a degree or certificate and no other academic option is available, disclosure of the relationship will be made to the appropriate Department Chair, Dean and Vice President of Academic Affairs or Vice President for Student Affairs as appropriate for review. The Vice President will refer the matter to the Vice Chancellor for Academic and Student Affairs for consideration. The Chancellor or his/her designee may allow a student to enroll in the class only upon a showing by the student that the enrollment is necessary to avoid an extreme hardship, and upon a showing by the college President or designee that the academic integrity of the student's enrollment in the class will nevertheless be maintained.
3. Persons who are married, or were married, are included within the definition of persons that have or who have had a consensual amorous relationship. Disclosure in this instance may be made via the Maricopa Disclosure process [The Annual Acknowledgement and Disclosures form may be found in the Employee Learn Center. Employee credentials are needed to enter secure site].
4. An employee who fails to follow the requirements established in this policy and who does not withdraw from participation in activities or decisions that may reward or penalize a supervisee or student with whom the employee has or has had a recent consensual amorous relationship, will be considered in violation of policy and will be addressed in accordance with established processes in job group policy manuals.

## AR 5, Non-Discrimination

AR 5.1.1

## Maricopa County Community College District (Maricopa EEO Policy)

It is the policy of the Maricopa County Community College District (MCCCD), (consisting of Chandler-Gilbert Community College, the District Office, Estrella Mountain Community College, GateWay Community College, GateWay Community College - Central City, Glendale Community College, Mesa Community College, Paradise Valley Community College, Phoenix College, Rio Salado Community College, Scottsdale Community College, South Mountain Community College, and all affiliated locations) to:

1. Recruit, hire, and promote in all job groups, and to ensure that all Human Resources (HR) employment selection and decision practices do not discriminate, nor tolerate discrimination in employment against any applicant or employee, on the basis of race, color, religion, sex, sexual orientation, gender identity, national origin, citizenship status (including document abuse), age, disability, pregnancy, veteran status or genetic information.
2. Administer all HR employment selection and decision practices pertaining to advertising, benefits, compensation, discipline (including probation, suspension, and/or involuntary termination for cause or layoff), employee facilities, performance evaluation, recruitment, social/recreational programs, and training will be administered without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, citizenship status (including document abuse), age, disability, pregnancy, veteran status or genetic information.
3. Hold each level of management responsible for ensuring that all employment policies, procedures, and activities are in full compliance with all applicable federal, state, and local EEO statutes, rules, and regulations.
4. Maintain an educational environment that does not discriminate or tolerate discrimination on the basis of race, color, religion, sex, sexual orientation, gender identity, national origin, citizenship status (including document abuse), age, disability, pregnancy, or veteran status in federally funded programs, activities and MCCCD sponsored events.
5. Hold each level of academic and student life management responsible for ensuring that all academic environments and activities are in full compliance with all applicable federal, state, and local non-discrimination laws.

## AR 5.1.2

## Maricopa EEO Policy

The Maricopa County Community College District (MCCCD) Equal Employment Opportunity (EEO) Policy Statement or EEO Clause appears in all major publications distributed to employees, students, and applicants. Copies of these documents are available at each of the colleges, at the District Office, and at the EEO/Affirmative Action (AA) Office.

In accordance with all applicable federal, state, and local regulations, MCCCD will maintain and update its Affirmative Action Plans (AAPs) on an annual basis. Copies of the AAP will be distributed to the Governing Board and CEC members by December 31st of each year. They include the AAP for Minorities and Females, the AAP for Individuals with Disabilities, and the AAP for Special Disabled Veterans, Vietnam Era Veterans, and Other Eligible Veterans.

## AR 5.1.3

## EEO Policy Statement

It is the policy of the Maricopa County Community College District (MCCCD) to promote equal employment opportunities through a positive continuing program. This means that Maricopa will not discriminate, nor tolerate discrimination in employment or education, against any applicant, employee, or student because of race, color, religion, sex, sexual orientation, gender identity, national origin, citizenship status (including document abuse), age, disability, pregnancy, veteran status or genetic information. Additionally, it is the policy of Maricopa to provide an environment for each Maricopa job applicant and employee that is free from sexual harassment, as well as harassment and intimidation on account of an individual's race, color, religion, sex, sexual orientation, gender identity, national origin, citizenship status (including document abuse), age, disability, pregnancy, veteran status or genetic information.

In addition, lack of English language skills is not a barrier to admission into Career and Technical Education (CTE) programs or skill centers.

## Appendix S-1 Residency for Tuition Purposes

All students are classified for tuition purposes under one of the following residency classifications:

1. Maricopa County resident
2. Out-of-County resident
3. Out-of-State resident (including F-1 non-immigrant students and students on other non-immigrant visas)

Residency for tuition purposes is determined in accordance with state law (ARS §§151801 et seq.) and regulations of the Maricopa Community Colleges Governing Board. All of the Maricopa Community Colleges are subject to the above statutes and regulations. Students who have questions about their residency should contact the Admissions and Records Office/Office of Student Enrollment Services for clarification.

## Implementation

1. An applicant must be eligible to attend post-secondary education in the United States prior to being eligible to register for classes and pay fees.
2. Domicile status must be established before the student registers and pays fees. It is the student's responsibility to register under the correct domicile status.
3. Enforcement of domicile requirements shall be the responsibility of the Chancellor of the Maricopa Community Colleges. The Chancellor has charged the Director of Admissions and Records or other designee at each college to make the initial domicile classification. In determining a student's classification, the college may consider all evidence, written or oral, presented by the student and any other information received from any source which is relevant to determining classification. The college may request written sworn statements or sworn testimony of the student.
4. A request for review of the initial classification may be made to a district review committee. The request must be in writing, signed by the student and accompanied by a sworn statement of all facts relevant to the matter. The request must be filed with the admissions officer of the college within ten (10) days of receipt of notification of classification as a non-resident. Failure to properly file a request for review within the prescribed time limit constitutes a waiver of review for the current enrollment period. The decision of the review committee shall be final.
5. 

## Definitions

1. "Armed Forces of the United States" means the Army, the Navy, the Air Force, the Marine Corps, the Coast Guard, the commissioned corps of the United States Public Health Services, the National Oceanographic and Atmospheric Administration, the National Guard, or any military reserve unit of any branch of the Armed Forces of the United States.
2. "Continuous attendance" means enrollment at one of Maricopa Community Colleges as a full-time or part-time student for a normal academic year since the beginning of the period for which continuous attendance is claimed. Students need not attend summer sessions or other such intersession beyond the normal academic year in order to maintain continuous attendance.
3. "Maricopa County resident" means an individual who lives in Maricopa County and has lived in the state of Arizona for at least one year prior (365 days) to the first day of the semester (as published in the approved MCCCD Academic Calendar posted online at ACADEMIC CALENDARS) and who is a United States citizen or in a lawful status. In-state residency must be established prior to county residency for those moving from other states. Refer to AR 2.2.2.3 Section C for guidelines.
4. "Domicile" means a person's true, fixed, and permanent home and place of habitation. It is the place where he or she intends to remain and to which he or she expects to return when he or she leaves without intending to establish a new domicile elsewhere. Visa status must confer the ability to establish domicile in the United States in order to be classified as an in-state student.
5. "Emancipated person" means a person who is neither under a legal duty of service to his parent nor entitled to the support of such parent under the laws of this state.
6. "Full-time student" means one who registers for at least twelve (12) credit hours per semester.
7. "Part-time student" means one who registers for fewer than twelve (12) credit hours per semester.
8. "Parent" means a person's father, or mother, or if one parent has custody, that parent, or if there is no surviving parent or the whereabouts of the parents are unknown, then a guardian of an unemancipated person if there are not circumstances indicating that such guardianship was created primarily for the purpose of conferring the status of an in-state student on such unemancipated person.

## In-State Student Status

1. Except as otherwise provided in this article, no person having a domicile elsewhere than in this state is eligible for classification as an in-state student for tuition purposes. Applicants for in-state tuition status and other public benefits must demonstrate lawful presence in the United States by presenting one of the documents listed in this regulation, under the section "Demonstrating Lawful Presence."
2. A person is not entitled to classification as an in-state student until the person is domiciled in this state for one year preceding the official starting day of the semester, except that a person whose domicile is in this state is entitled to classification as an in-state student if the person meets one of the following requirements:
A. The person's parent's domicile is in this state and the parent is allowed to claim the person as an exemption for state and federal tax purposes.
B. The person is an employee of an employer which transferred the person to this state for employment purposes or the person is the spouse of such an employee.
C. The person is an employee of a school District in this state and is under contract to teach on a full-time basis, or is employed as a full-time noncertified classroom aide, at a school within that school District. For purposes of this paragraph, the person is eligible for classification as an in-state student only for courses necessary to complete the requirements for certification by the state board of education to teach in a school District in this state. No member of the person's family is eligible for classification as an in-state student if the person is eligible for classification as an in-state student pursuant to this paragraph, unless the family member is otherwise eligible for classification as an in-state student pursuant to this section. Eligibility for in-state tuition is subject to verification of intent to domicile in this state. Determination of residency is made by the Admissions and Records office/Office of Enrollment Services.
D. The person's spouse has established domicile in this state for at least one year and has demonstrated intent and financial independence and is entitled to claim the student as an exemption for state and federal tax purposes or the person's spouse was temporarily out of state for educational purposes, but maintained a domicile in this state. If the person is a non-citizen, the person must be in an eligible visa status pursuant to federal law to classify as an in-state student for tuition purposes.
3. The domicile of an unemancipated person is that of such person's parent.
4. An unemancipated person who remains in this state when such person's parent, who had been domiciled in this state, removes from this state is entitled to classification as an in-state student until attainment of the degree for which currently enrolled, as long as such person maintains continuous attendance.
5. A person who is a member of the armed forces of the United States and who is stationed in this state pursuant to military orders or who is the spouse or a dependent child of a person who is a member of the armed forces of the United States and who is stationed in this state pursuant to military orders is entitled to classification as an in-state student. The student does not lose in-state student classification while in continuous attendance toward the degree for which he or she is currently enrolled.
6. A person who is a member of the armed forces of the United States or the spouse or a dependent of a member of the armed forces of the United States is entitled to classification as an in-state student if the member of the armed forces has claimed this state as the person's state of home record for at least
twelve consecutive months before the member of the armed forces, spouse or dependent enrolls in a university under the jurisdiction of the Arizona Board of Regents or a community college under jurisdiction of a community college district governing board. For purposes of this subsection, the requirement that a person be domiciled in this state for one year before enrollment to qualify for in-state student classification does not apply.
7. Per federal law, beginning July 1, 2015, immediate classification as an in-state student shall be granted to a Veteran using benefits under Post-9/11 GI bill® and Montgomery GI bill-active duty, or the Veteran's spouse or child using transferred Post-9/11 GI bill benefits who lives in Arizona (regardless of his/her formal state of residence) and enrolls in the school within 3 years of the transferor's discharge from a period of active-duty service of 90 days or more.
8. Per federal law, beginning July 1,2015 , immediate classification as an in-state student shall be granted to a spouse or child using benefits under the Marine Gunnery sergeant John David Fry Scholarship who lives in Arizona (regardless of his/her formal state of residence) and enrolls in the school within three years of the service member's death in the line of duty following a period of activeduty service of 90 days or more.
9. Per Arizona state law, a person who is honorably discharged from the armed forces of the United States on either Active Duty or Reserve or National Guard Status, or who has retired from Active Duty or Reserve or National Guard Status, shall be granted immediate classification as an in-state student on honorable discharge from the armed forces and, while in continuous attendance toward the degree for which currently enrolled, does not lose in-state student classification if the person has met the following requirements:
A. Registered to vote in this state.
B. Demonstrated objective evidence of intent to be a resident of Arizona which, for the purposes of this section, include at least one of the following:
10. An Arizona driver license
11. Arizona motor vehicle registration
12. Employment history in Arizona
13. Transfer of major banking services to Arizona
14. Change of permanent address on all pertinent records
15. Other materials of whatever kind or source relevant to domicile or residency status
10.A student using any VA educational benefits who does not otherwise qualify under items above shall be granted immediate classification as an in-state student, and while continuously enrolled does not lose in-state student classification if the person has demonstrated objective evidence of intent to be a
resident of Arizona that for the purposes of this section, includes at least one of the following:
16. Registration to vote in this state
17. An Arizona driver license
18. Arizona motor vehicle registration
19. Employment history in Arizona
20. Transfer of major banking services to Arizona.
21. Change of permanent address on all pertinent records
22. Other material of whatever kind or source relevant to domicile or residency status.
11.A person who is a member of an Indian Tribe recognized by the United States Department of the Interior whose reservation land lies in the state and extends into another state and who is a resident of the reservation is entitled to classification as an in-state student.

## Alien In-State Student Status

1. An alien is entitled to classification as an in-state refugee student if such person has been granted refugee status in accordance with all applicable laws of the United States and has met all other requirements for domicile.
2. In accordance with the Illegal Immigration Reform and Immigrant Responsibility Act of 1996 (P.L. 104-208; 110 Stat. 3009-546), a person who was not a citizen or legal resident of the United States or who is without lawful immigration status is not entitled to classification as an in-state student pursuant to ARS §15-1802 or entitled to classification as a county resident pursuant to ARS $\S 15-1802.01$. A student will be assessed out-of-state tuition until such time that documentation of status is received in the Office of Admissions and Records/Enrollment Services and (eligibility for) residency is confirmed. Documentation must be provided prior to the end of the term in which residency classification is being requested. Documentation received after the end of term will be used for residency determination in subsequent terms.
3. In establishing domicile, the alien must not hold a visa that prohibits establishing domicile in the United States and this state. After meeting other domicile requirements, students holding valid, unexpired visas in the following categories may be classified as in-state students (See Appendix S-1A):

- A Foreign Government Official or Adopted Child of a Permanent Resident
- E Treaty Traders
- G Principal Resident Representative of Recognized Foreign Member Government to International Staff
- H H1B and H4
- K Spouse or Child of Spouse of a U.S. Citizen, Fiancé or Child of Fiancé of U.S. Citizen
L Intracompany Transferee, or Spouse or Child N6 NATO-6
U, T Victim of Criminal Activity
V Spouses and Dependent Children of Lawful Permanent Residents

4. Students who hold a current visa and have submitted an I-485 to U.S.

Citizenship and Immigration Services (USCIS), may establish residency if other domicile requirements have been met. Residency eligibility for I-485 applicants may be considered one year after the date on the USCIS Notice of Action letter (I-797) confirming application for permanent resident status provided their prior visa status is one that allows the visa holder to establish domicile in the United States. Students must provide required residency documentation in addition to the (I-797) Notice of Action for residency consideration. In establishing domicile, the alien must be in a status that does not prohibit establishing domicile in this state for at least one year immediately preceding the official starting date of the semester. In the event that an alien student's parent is domiciled in this state and is allowed to claim the student as an exemption for state or federal tax purposes (3.c.i.2.a), the student's parent, in order to establish domicile, must hold a valid, unexpired visa in one of the categories listed in section 3 above.
5. Students who hold a current or expired visa and have applied for a change of status will retain their immigration status based on their prior visa status and not the status or visa for which they are applying.

## Presumptions Relating to Student Status

Unless there is evidence to the contrary, the registering authority of the community college or university at which a student is registering will presume that:

1. No emancipated person has established a domicile in this state while attending any educational institution in this state as a full-time student, as such status is defined by the community college district governing board or the Arizona Board of Regents, in the absence of a clear demonstration to the contrary.
2. Once established, a domicile is not lost by mere absence unaccompanied by intention to establish a new domicile.
3. A person who has been domiciled in this state immediately before becoming a member of the Armed Forces of the United States shall not lose in-state status by reason of such person's presence in any other state or country while a member of the Armed Forces of the United States

## Proof of Residency

When a student's residency is questioned, the following proof will be required.

1. In-State Residency
2. An affidavit signed by the student must be filed with the person responsible for verifying residency.
3. A combination of the following may be used in determining a student's domicile in Arizona:
i. Arizona income tax return
ii. Arizona Voter registration
iii. Arizona Motor Vehicle registration
iv. Arizona Driver's license
v. Employment history in Arizona
vi. Place of graduation from high school
vii. Source of financial support
viii. Dependency as indicated on federal income tax return
ix. Ownership of real property
x. Notarized statement of landlord and/or employer
xi. Transfer of major banking services to Arizona
xii. Change of permanent address on all pertinent records
xiii. Arizona Department of Children Services documents related to foster care placement
xiv. Other relevant information
4. County Residency
5. A combination of the following may be used to determine a student's county residency:
i. Notarized statements of landlord and/or employer
ii. Source of financial support
iii. Place of graduation from high school
iv. Ownership of real property
v. Bank accounts
vi. Arizona income tax return
vii. Dependency as indicated on a Federal income tax return
viii. Other relevant information

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government.


#### Abstract

Appendix S-3 S-3 Concurrent Enrollment In Arizona Public Institutions of Higher Education It is unlawful for any non-resident student to register concurrently in two or more public institutions of higher education in this state including any university, college or community college for a combined student credit hour enrollment of more than six (6) credit hours without payment of non-resident tuition at one of such institutions. Any non-resident student desiring to enroll concurrently in two or more public institutions of higher education in this state including any university or community college for a combined total of more than six (6) credit hours who is not subject to non-resident tuition at the institution of his choice in an amount equivalent to nonresident tuition at such institution for the combined total of credit hours for which the non-resident student is concurrently enrolled.


## Appendix S-4

FY 2022-2023 Tuition and Fee Schedule

## Appendix S-6

## Instructional Grievance Process

A student who feels that he/she has been treated unfairly or unjustly by a faculty member (full-time or part-time) with regard to an academic process such as grading, testing or assignments, shall discuss the issue first with the faculty member involved. This conference shall be requested by the student within fifteen (15) working days from the time the student knew or reasonably should have known about the unfair or unjust treatment. If the grade issue is the final grade, Article 20.7.6 of the Faculty Agreement governs.
This instructional grievance process should not be utilized in a case in which a student feels he/she has experienced discrimination. If the student feels that he/she has experienced discrimination on the basis of race, color, religion, sex, gender identity, national origin, citizenship status (including document abuse), gender, age, disability, veteran status, genetic information, or sexual orientation, the student should refer to the Discrimination Complaint Procedures for Students as administered by the Vice President for Student Affairs.
Steps for students to follow:

1. If, within ten (10) working days of the request for the conference with faculty member, the problem is not resolved or the faculty member has been unable to meet with the student, the student may continue the process by filing a written
grievance with the Department/Division Chairperson and appropriate administrative officer at the college/center. This written grievance must be filed within ten working days following the previous deadline. The written grievance will be given to the faculty member five days before any official meetings are convened.
2. Upon receipt of a written grievance, the Department/Division Chair or appropriate college administrative officer will work with the parties in an attempt to resolve the conflict. The faculty may ask that the College Faculty Senate President be in attendance. Every attempt will be made to maintain confidentiality during this process. A faculty member will not be required to respond to a grievance which is not in writing and which, when appropriate, did not have specific documentation including dates, times, materials, etc. The written grievance will be made available to the faculty member.
3. If the grievance is not resolved at this level within ten working days, the student should forward to vice president of academic affairs or designee, a copy of the original written grievance with an explanation regarding action taken at each prior level. The dean of instruction or appropriate college/ center administrative officer will meet with the student, faculty member, the College Faculty Senate President if requested by the faculty member, and Department/Division Chair and attempt to resolve the issues. This level will be the final step in any grievance process regarding grades.
4. If the grievance, other than those concerning grades, is not resolved by the vice president of academic affairs or designee, it may be forwarded in writing by the student to the college president for final resolution. The college president or designee will issue a final written determination in the grievance process.
5. Instructional grievances are resolved at the college level. The district office is not an avenue of appeal for the instructional grievance process.

Note: The grievance process for grades must be initiated no later than sixty (60) calendar days from the date the grade was issued.

## Appendices

- S-1 Residency for Tuition Purposes
- S-1A Visa Chart - Residency
- S-2 Transfer Articulation Guidelines
- S-3 Concurrent Enrollment In Arizona Public Institutions of Higher Education
- S-4 Tuition and Fee Schedule
- S-5 Student Financial Assistance
- S-6 Instructional Grievance Process
- S-8 Non-Instructional Complaint Resolution
- S-9 Teacher Education Options Available to Students
- S-10 Application Process for Reduced Course Loads
- S-11 Procedures for Lost or Stolen Student Records
- S-12 Important Deadline for Students
- S-13 The Maricopa Community Colleges Allied Health or Nursing Program
- S-14 Procedure for Petition Signature Solicitation
- S-15 Procedure for Use of College Grounds
- S-16 Statement on the Arizona Medical Marijuana Act (Proposition 203)
- S-17 FERPA Appeal Process
- S-18 Maricopa County Community College District Registered Sex Offender Notification Procedure
- S-19 Individual Use of Intellectual Property Request Form

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-A.A.S., Phoenix College; A.A.S., GateWay Community College; A.A.S., Phoenix College.
USSERY, JENNIFER (2014) Communication, Reading, American Sign Language, and Education
B.A., California State University, San Bernardino; M.A., California State University, Fullerton; and M.A., Arizona State University.

FACULTY and ADMINISTRATION
(equals First Year of Service to MCCCD)
VALDIVIA, KATHERINE (2013) Communication, Reading, ASL, and Education -B.A., Arizona State University; M.Ed., Northern Arizona University.

VAZQUEZ, JULIAN (1999) Liberal Arts
-B.A., M.A., Ph.D., Arizona State University.
VILLEGAS-GOLD, ROBERTO Y. (2016) Counseling
-B.A., Ph.D., Arizona State University; M.A., John Jay College of Criminal Justice.
WANG, YUN DAN (2016) Physical Sciences
-B.S., M.S., St. John's University.
WEBSTER, DEBORAH A. (2012) Behavioral Sciences
-B.A.M., M.A., M.Ed., Psy.D., Argosy University.
WEDDLE, JAMISON B. (2017) Fine and Performing Arts
-Hiring Qualification with Equivalent Experience.
WELBORN, TY (2018) Liberal Arts
-A.A.S., Houston Community College; B.A., M.A., Ph.D., University of Houston
WHITE, JAMES J. (2004) Physical Sciences
-B.A., Idaho State University; M.S., Ph.D., University of Arizona.
WILBURN, JANET (1995) Dental
-A.S., San Diego Mesa College; B.S., Texas Woman's University; C.D.A.
WILLIAMS, WILLIAM (2004) Criminal Justice, Emergency Response, and Legal Studies -A.A.S., Phoenix College; B.S., Northern Arizona University.

WINTERS, GENEVIEVE (2001) English
B.A., University of Arizona; M.P.A., Arizona State University; M.A., Northern Arizona University.

ZAHAROPOULOS, DOULA (2005) Business
-B.S.B.A., M.B.A., University of Wisconsin; Ph.D., Grand Canyon University.

## Emeritus Faculty (Years of Service to MCCCD)

ALNUTT, JOHN C. (1954-1978) English, Mathematics
ANDERSON, KRISTIN (1981-2008) Dental Hygiene
ANDERSON, MARILYN A. (1987-2008) Business
ANDERSON, WILLIAM N. (1962-2002) Physics, Geology, Astronomy, Engineering
AWE, FLORETTA S. (1960-1983) District Director, Allied Health \& Nursing
BAILEY, LOWELL, JR. (1965-1989) Physical Education
BAIZ, LUIS (1970-2001) Art
BENHAM, MILFORD J. (1946-1983) Physics, Geology
BOGUE, JAMES W. (1960-1982) Library
BOSCHULT, J. M. (1973-2004) English
BOUTELLE, KATHERINE M. (1966-1989) English
BRATT, MARION (1976-1989) English
BRUCE, SHIRLENE M. (1976-1997) Applied Business
BRUNDAGE, JOE R. (1946-1973) Engineering Technology
BURSH, EULA RILEY (1980-2006) Mathematics
BUZZARD, CHARLES E. (1965-1989) Mass Communications
CAÑEZ, OFELIA (2001-2007) Education

FACULTY and ADMINISTRATION
(equals First Year of Service to MCCCD)
CARPENTER, AFTON J. (1963-1983) Reading
CHRISTEN, KAREN (1980-2003) Dental Hygiene CLIFTON, LORAYNE (1961-1983) Nursing COFFEEN, CLIFF G. (1962-1987) Social Science COLE, DALE L. (1961-1989) Physics, Engineering CULMER, CARITA M. (1971-1999) Library CUPS, RICHARD (1982-2014) Physical Sciences

DAMERON, LOGAN D. (1966-1992) Library
DECKER, JESSE SMITH (1946-1973) Chemistry
DILLARD, GEORGIA (1973-1999) Library
DIMAS, PETE (1990-2007) History
DORR, DEBRA (1996-2015) Applied Technology, Family and Consumer Sciences
DRISCOLL, JOHN EDWARD (1970-1990) English
DUTTON, ALLEN A. (1961-1982) Art, Photography
EROE, GEOFFREY M. (1976-2017) Fine and Performing Arts
ESCALANTE, DELIA P. (1976-2016) Liberal Arts
EVANS, SETH PARKER (1958-1989) Business
FERNIE, ROBERT W. (1975-2002) Psychology
FIELDEN, JOHN R. (1961-1986) Social Science
FITZGERALD, EUGENIA (1982-2002) Mathematics
FOSTER, VIRGINIA R. (1968-2006) Foreign Language
FROST, CHALMA R. (1965-1989) Music
GOLDBERG, RICHARD B. (1964) Social Science
GREEN, KATHRYN (1977-2005) Applied Business
HANSON, JOHN C. (1973-1995) Counseling
HATLEY, J. T. (1965-1989) English
HODGKINS, ANNE V. (1994-2016) Mathematics
HOLTFRERICH, MAURICE D. (1966-1992) Mathematics
HOWARD, WILLARD W. (1961-1989) Social Science
HUARD, DONALD V. (1963-1989) Psychology
HUNGERFORD, ROBERT D. (1963-1983) Business
INGRAHAM, JAMES A. (1968-1992) Business
JAMESON, BRENT L. (1972-2006) Foreign Language
JAMIESON, GAIL M. (1968-1992) Art
JOHNS, SYLVIA (1989-2002) American Sign Language
JOHNSON, ANN (retired 1972) Psychology
JONES, A. LOUISE (1971-1992) Nursing
KACZUR, PAUL (1971-1997) Mathematics

FACULTY and ADMINISTRATION
(equals First Year of Service to MCCCD)
KASS, EMIL L. (1965-1989) Counseling
KING, JACK L. (1965-1988) Business
KURTH, LINDA A. (1984-2008) Applied Business
LUCAS, STEVEN R. (1987-2009) Reading
MACIAS, MARGARET (1993-2008) Counseling
MARICH, MARTIN (1960-1983) Physical Education
MARKS, JOYCE LYNN (1976-2008) Library
MARSHALL, PAUL E. (1951-1978) Business
McGILVRA, MARTHA A. (1963-1983) Business
McINTYRE, PATRICIA E. (1991-2013) Counseling McLAIN, JOYCE D. (1966-1989) Physical Education MERCER, JOHN (1982-2003) Photography MILLER, RICHARD B. (1966-1986) English MILLS, GILBERT (1947-1983) Physics, Geology, Engineering MONROE, MARSHALL (1940-1966) Foreign Languages

NAPLES, DOROTHY J. (1963-1984) Physical Education
NAUMOFF, HAROLD (1966-1995) Psychology
NICHOL, JOHN S. (1967-2000) Counseling
NOBLE, VIRGINIA L. (1966-1989) Counseling
NUNEZ, TONY (1970-1992) Counseling
O'BRIEN, ELIZABETH (1990-2017) Communication, Reading, ASL, and Education
OEHMKE, ANN (1962-1986) Physical Education
ORMAN, ARTHUR (1965-1987) English
PFEFFERBAUM, ROSE L. (1972-2012) Liberal Arts
POLICHINO, LOUIS M. (1956-1977) Speech
POORE, KATHLEEN G. (1973-1992) Music
POWELL, CONRAD D. (1963-1983) Counseling
REPP, ANN (1972-1992) Physical Education
REYES, ROMAN P. (1978-2006) Art
ROE, WILLIAM (1984-2014) Behavioral Sciences
ROWE, RICHARD F. (1964-1997) Geography, Geology
SHARPE, CHARLES K. (1948-1977) Audiovisual Services
SHAVER, FRED W. (1966-1989) Technology
SHEEHAN, DENNIS (1995-2014) Business
SHINDLER, ANNE W. (1959-1983) Business
SODERMAN, EDLYN A. (1987-2008) Legal Studies
SOLLER, LARRY S. (1971-1997) Communication/Theatre Arts
SPRAGUE, MILDRED (1970-1997) Nursing

FACULTY and ADMINISTRATION
(equals First Year of Service to MCCCD)
SUEYOSHI, JOE (1991-2022) Mathematics
TADANO, MARIAN Y. (1973-2004) Clinical Laboratory Sciences, Chemistry
TANKERSLEY, CATHERINE M. (1985-2006) Phlebotomy
TATE, PHILIP (1984-2008) Biology
VAN SITTERT, BARBARA C. (1962-1998) English
VILLEGAS, AMALIA VALLE (1990-2016) Counseling
WALDRON, WILFRED R. (1966-1989) Foreign Language
WALTERS, JAMES D. (1975-2002) Learning Technologies and Development
WEISS, ELMA STECK (1961-1983) Physical Education
WESLER, WARREN (1963-1983) Social Science

WESTENBERG, CAMILLA (1986-2013) English
WILF, SELMA (1975-1996) Reading
WILSON, RICHARD (2000-2022) Criminal Justice, Emergency Response, and Legal Studies

> Emeritus Administration (Years of Service to MCCCD)

WALLACE, WILLIAM B. (1961-1989) Dean of Administrative Services

## Retired Faculty (Years of Service to MCCCD)

ADAMSON, THOMAS (1990-2013) Mathematics
AGIN, AVIS (1966-1981) Reading
ARLE, JOHN F. (1993-2006) Biology
ARNOLD, CATHERINE L. (1965-1973) Home Economics
ARQUETTE, JEANNE (1994-2014) Physical Sciences
AVILA, ELZA S. (1973-1992) Counseling
BARNES, VIRGINIA (1989-2002) Anthropology, Religious Studies
BANKHEAD, HUGH L., JR. (1965-1983) Technology
BEDNAREK, SALINA M. (2008-2020) Nursing
BOBROW, MOJDEH K. (2010-2019) Criminal Justice, Emergency Response, and Legal Studies
BOLTON, CAROL J. (1991-2014) Communication, Reading, ASL, and Education
BOND, MINYON L. (1984-2011) Biosciences

BROUCH, VIRGINIA (1998-2002) Art
BROWN, ALMA (1977-1987) Home Economics
BRUNER, BEVERLY (2005-2014) Communication, Reading, ASL, and Education
BUGH, GINNEY (1996-2000) Communication/ Theatre Arts
BURGESS, GERALD (1999-2014) Fine and Performing Arts
BUTTERFIELD, ALISON J. (2005-2013) Criminal Justice, Emergency Response, and Legal Studies

FACULTY and ADMINISTRATION
(equals First Year of Service to MCCCD)

CHAMBERS, KURT (1998-2015) Center for Teaching, Learning, and Technology
CHAVEZ, ENRIQUETA (1984-2018) Counseling
CIPRIANO, CHERYL (2010-2014) Nursing
CLARK, LOMAN B. (1994-2020) Counseling
CLOUD, CINDY L. (1989-2020) Business

COOK, NANCY (2010-2018) Nursing
CRANDALL, JEWELL (retired 1979) Home Economics
CROSS, KATHERYN A. (2003-2017) English
DENNIS, DEBORAH S. (1983-2008) Health Information Management
DeWITT, PAMELA K. (2004-2017) Nursing
DOLPHIN, HARRIET (1977-1989) Art
DOMINO, TRACY L. (2011-2019) Health Professions, Fitness, and Wellness
DOUBLEDAY, DALE (2003-2017) Fine and Performing Arts
DOWD, LINDA (2000-2015) English

DRUDING, C. EDWIN (1965-1983) Psychology

DYER-HURDON, MICHELLE M. (2002-2018) Library

ENCISO, MARIA D. (1991-2018) Liberal Arts
ERMOIAN, DEBORAH (1999-2019) Mathematics
EWALD, BONNIE (2001-2009) Nursing
EYGENDAAL, JAN (1978-2001) Dental Assisting
FARRINGTON, ROSEMARIE (1968-1986) Dental Assisting

FAWCETT, IRENE M. (1998-2013) Nursing
FLADHAMMER, DANA (1997-2007) Applied Business

GALLAGHER, RAYMOND T. (1968-1982) English, Journalism

GALLOWAY, LAURA (1987-2018) Communication, Reading, ASL, and Education

GARCIA, LINDA (1991-2007) Dental Hygiene
GEDDIS, DIANNE (2002-2019) Health Professions, Fitness and Wellness
GEDDIS, SCOTT (1984-2019) Health Professions, Fitness and Wellness
GIBNEY, MARIAN (1983-2016) Behavioral Sciences
HAAG, AUDREY (2011-2020) Nursing

HABERMAN, JUDITH G. (1990-2006) English
HACKLEMAN, RANDOLPH (1963-1976) Technology

HATHY, SANDRA (2001-2011) Business

HAUGEN, VIVIAN K. (1973-1983) Medical Records Technology
HERRERA, VERONICA (2006-2016) Mathematics
HOLDER, DANIEL (2012-2023) Mathematics
HOLMES, LUCILLE (retired 1966) Communications, English
HOPKINS, MARSHA ANN (1973-2011) Behavioral Sciences

FACULTY and ADMINISTRATION
(equals First Year of Service to MCCCD)

HOUSER, HELEN J. (2001-2010) Health Care Education
HUGHES, BILLIE J. (1990-1999, 2005-2008) Learning Technologies and Development
HUGHES, J. EDMUND (1990-2003) Music

HUGHLING, WALLACE C. (1968-1981) Administration of Justice

JAMISON, JUANITA (1955-1973) English

JENKINS, BEVERLY (2001-2015) Business

JENNINGS, VIOLET MAY (1956-1973) Mathematics

JOFFE, IRWIN L. (1965-1983) Reading
KAPPES, DEBORAH (1998-2014) Dental
KEENAN, CHARLES (1974-1988) Emergency Medical Technology
KETCHAM, SHARYN (2006-2015) Health Professions, Fitness and Wellness

KISIEL, LUCIA M. (2000-2015) Mathematics
LaVOY, KATHLEEN (2013-2020) Dental

LEWIS, KATHRYN M. (1988-2005) Emergency Medical Technology

LOGAN, ELIZABETH (1998-2019) Health Professions, Fitness and Wellness

LOSICKI, DEBRA A. (2010-2016) Nursing

LI, SUI-LIN (1989-2015) Mathematics
LOWE, MONICA (1984-2013) Counseling
MACKLIN, LAURA (1961-1973) English
MAHER, MARY S. (1965-1978) English
MARLETT, ROBERT (1978-1983) Technology
McCLYMONDS, MARIANNA E. (1982-2009) Mathematics

McGIRR, CLARENCE (1980-1986) Research \& Development

McKENZIE, ALVERTA (2005-2021) Applied Technology, Family and Consumer Sciences MEYERS, NANCY (2002-2012) English

MILLER, LISA (1981-2015) English
MIRELES, JESSE (1987-2014) Applied Technology, Family and Consumer Sciences MOYER, PATRICIA H. (1978-1993) Chemistry

NAVARRETE, NANCY (1987-2017) Counseling
NELSON, LEXA J. (2010-2020) Nursing

OSBORN, APRIL (1977-1997) Dental Hygiene
OZZ, ROBIN L. (2006-2019) English

PARKER, CYNTHIA J. (2005-2020) Applied Technology, Family and Consumer Sciences PARKER, VERONIQUE M. (2004-2022) Health Professions, Fitness and Wellness

PEPE, PHILIP (1984-2009) Biosciences

PETERSON, EULA (retired 1973) Nursing
PETTERSON, BONNIE J. (1993-2011) Health Professions, Fitness and Wellness
PHILLIPS, SYLVIA A. (1975-2017) Applied Technology, Family and Consumer Sciences

FACULTY and ADMINISTRATION
(equals First Year of Service to MCCCD)

PHILLIPS, VIVIAN (1965-1975) Business
PRATHER, MARIANNE (1991-2004) Reading
RAFIEEI, NOSHIN (2017-2021) Liberal Arts
RANDON, RODY (2002-2023) Communication, Reading, ASL, and Education

RASSAS, SARA LEYVA (2003-2016) English

REINKEN, HARRISON F. (1978-1997) Business

ROBERTS, KEN (1990-2017) Applied Technology, Family and Consumer Sciences

ROE, CRISTIE E. (1990-2020) English
ROGERS, PAMELA K. (1998-2010) English
RUSSELL, R. KEITH (1961-1980) Physics, Engineering
SAMSON, PATRICK (1983-1993) Medical Records Technology
SANDOVAL, RALPH (2000-2014) Communication, Reading, ASL, and Education

SHEER, PATRICIA (1970-1989) Nursing

SHUMAN, SUSAN E. (1988-2004) Business

SIMPSON, GREG (2004-2019) Business

SOLAND, LINDA R. (2004-2018) Library

SOLLER, SARA THORNHILL (1990-2008) Communication and Theatre
SPEED, DON (1985-2017) Physical Sciences
STARK, DIANE (1997-2019) Business
SUNG, HSIAO-HUA (1986-2012) Mathematics
TETTING, DANIEL W. (1990-2000) Nursing
TRAMEL, LINDA (1990-2001) Applied Arts and Human Sciences
VANDE PUTTE, SUZANNE (1990-2013) Nursing

VAN ZANTEN, WILLIAM G. (1962-1978) Chemistry

VASQUEZ, KARA (2010-2018) Communication, Reading, ASL, and Education

VELLENGA, DOROTHY (1963-1975) English

VIERA, CYNTHIA L. (1991-2016) Behavioral Sciences
WALKER, ROLAND McALLEN (1999-2021) Liberal Arts

WALSH, JUDY (1991-2002) English
WEAVER, LETA (retired 1971) Library

WEINGART, CARMEL ANN (2007-2019) Dental

WELLS, SANDRA (1995-2011) Center for Teaching, Learning, and Technology (CTLT)

WELTER, MARTIN (2006-2023) Health Professions, Fitness and Wellness

WESTCOT, MABEL (retired 1968) Home Economics

WICH, SARAH J. (1968-1986) Nursing
WITHINGTON, HENRY (retired 1979) Social Science
WILSON, MICHAEL (1997-2017) Liberal Arts
YOES, MILAS W. (1999-2018) Fine and Performing Arts

# FACULTY and ADMINISTRATION 

(equals First Year of Service to MCCCD)

# Retired Administration (Years of Service to MCCCD) 

\author{

ARCHIBALD, EILEEN (2002-2015) Director, Institutional Advancement <br> BINDER, JAN (1995-2017) Director, Planning, Research, and Institutional Effectiveness <br> HALFORD, SHARON (2004-2016) Dean, Industry and Public Service <br> HARRISON, MYRNA (1988-1993) President <br> KAKAR, CASANDRA (1995-2019) Vice President, Academic Affairs <br> MOORE, JAMES D. (1994-2007) Vice President, Administrative Services <br> SOLLEY, ANNA (1976-2015) President <br> \section*{Phoenix College Administration} <br> | President | Kimberly Britt, Ph.D. |
| :---: | :---: |
| Vice President, Academic Affairs | C. J. Wurster, Ed.D. |
| Vice President, Administrative Service | Paul DeRose, M.Ed. |
| Vice President, Student Affairs, Interim | Heather Kruse, Ed.D. |
| Associate Vice President and Chief Informat | Paul Ross, M.S. |
| Dean of Arts and Sciences | Wilbert Nelson, M.S.W. |
| Dean of Healthcare, Industry, Public Service, and Technology | Adrianna Coronel, M.Ed. |
| Dean of Student Affairs | Cynthia Ramos, M.Ed. |
| Associate Vice President, Business and Finance | Angela C. Buchele,M.B.A. |
| Director of Development | . Deborah Spotts, M.S. |
| Director of Planning and Research | Marc Surrarrer, M.Ed. |
| Marketing and Public Relations Mana | Christy Flora, M.P.A. |
| Community Liaison | ... Laura Pastor, M.P.A. |

## Maricopa County Community Colleges District Governing Board

| Ms. Marie Sullivan, President | term expires 12/2026 |
| :---: | :---: |
| Dr. Tom Nerini, Secretary | term expires 12/2024 |
| Ms. Kelli Butler | . term expires $12 / 2026$ |
| Ms. Donna Davis | term expires 12/2026 |
| Ms. Jacqueline V. Smith, J.D | . term expires $12 / 2024$ |
| Ms. Susan Bitter Smith, M.B.A | ... term expires $12 / 2024$ |
| Dr. Linda Thor | . term expires 12/2024 |
| Student Mem | TBD |

District Administration


## College Presidents




[^0]:    * For specific information concerning the last day to apply for graduation, individual class start dates, and final exams, consult the college of enrollment.
    ** Any classes meeting on Friday, Saturday or Sunday will have final examinations during their regular class time.
    + Through the 7th week, student may initiate an official withdrawal from course(s) without instructor signature (see Appendix S-7 in Catalog Common Pages).
    ++ After the 7th week, student must initiate an official withdrawal request from instructor and obtain their signature (see Appendix S-7 in Catalog Common Pages).

[^1]:    Restricted Electives: None.

[^2]:    Restricted Electives: None.

[^3]:    TOTAL
    *FYC may be met with fewer than 6 credits if a student has transfer credit from ASU, NAU or UAZ for a single course that meets FYC in full.
    **120 semester credits is the minimum of 120 credits; however, minimum credits for a BA may vary by specific major. Refer to the Program (Degree) Search at curriculum.maricopa.edu for credit minimums by major.

[^4]:    **State certification requirements include courses on the constitutions of the U.S. and Arizona. Taking GCU/POS113 for [SB] fulfills this requirement completely. Students who instead take HIS103 or POS110 for [SB] should consider taking POS221 as a Content Area Elective so they have completed study of both constitutions. POS220 meets state certification requirements for both constitutions but does not meet [SB].
    ***64 semester credits is the maximum accepted toward most degree programs at Arizona's public universities. Some exceptions apply; consult with an academic advisor for additional transfer pathways.

[^5]:    AES294
    Air Force Physical Fitness
    1 credit(s) 3 period(s) lecture + lab
    Physical training component of Air Force ROTC. Covers topics of immediate or special interest to a faculty member and students. Prerequisites: None. Course Notes: AES294 may be repeated for credit. AES294 must be taken concurrently with AES101, AES103, AES201 and AES203.

