



Programming & Systems Analysis

To Enroll in our
IT Programs

www.phoenixcollege.edu/iti

Program your future!

Do you like to solve technical problems? The Programming & Systems Analysis program provides an in-depth exploration of many different computer language and technical skills. Students build a fundamental knowledge of operating systems, project management, and computer programming fundamentals, including: programming languages, business systems analysis tools, management systems and database development. Employment opportunities include computer programming analyst, software developer, and information systems analyst positions.

This program prepares students for the following certification(s):

- Apple App Development with Swift Certification Level 1
- CompTIA Network+
- Linux Essentials
- Microsoft Technology Associate (MTA) Software Development

To Customize
IT Training
Solutions for
Employees

Contact: Maria Reyes
Dean of Industry &
Public Service

pc-iti-info@phoenixcollege.edu



MARICOPA
COMMUNITY COLLEGES

Phoenix College
IT INSTITUTE

The Maricopa County Community College District (MCCCD) is an EEO/AA institution and an equal opportunity employer of protected veterans and individuals with disabilities. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, age, or national origin. A lack of English language skills will not be a barrier to admission and participation in the career and technical education programs of the District. The Maricopa County Community College District does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities. For Title IX/504 concerns, call the following number to reach the appointed coordinator: (480) 731-8499. For additional information, as well as a listing of all coordinators within the Maricopa College system, visit <http://www.maricopa.edu/non-discrimination>.



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Certificates

CCL-5048: Programming and Systems Analysis Level I (24 Credits)

- CIS105 Survey of Computer Information Systems
- CIS133DA Internet/Web Development-Level I
- GBS151: Introduction to Business
- CIS126DL: Linux Operating System or MST150++ (any Windows Course)
- CIS150: Programming Fundamentals or CIS150AB: Object-Oriented Programming Fundamentals
- CIS166++ Any Web Scripting course
- CIS276DA MySQL Database
- CIS159 or CIS162++ or CIS163AA or CIS165++: VB, C, Java, or any Mobile App course

CCL-5962: Programming and Systems Analysis Level II (33 Credits)

- The courses in CCL-5048
- CIS190: Introduction to Local Area Networks
- CIS250: Management of Information Systems
- CIS259 or CIS262++ or CIS263AA or CIS265: VB, C, Java, or Advanced iOS Application Development

Degree

Programming & Systems Analysis: AAS-3844

Required:

- CIS105 Survey of Computer Information Systems
- CIS133DA Internet/Web Development-Level I
- GBS151: Introduction to Business
- CIS126DL: Linux Operating System or MST150++ (any Windows Course)
- CIS150: Programming Fundamentals or CIS150AB: Object-Oriented Programming Fundamentals
- CIS166++ Any Web Scripting course
- CIS190: Introduction to Local Area Networks
- CIS250: Management of Information Systems
- CIS276DA: MySQL Database
- CIS159 AND CIS259 or CIS162++ AND CIS262++ or CIS163AA AND CIS263AA or CIS165++ and CIS265++: 2 Levels of VB, C, Java, or any Mobile App course

Restricted Electives (Choose 2 from the following):

- CIS224: Project Mgt. Microsoft Project for Windows
- CIS156: Python Programming: Level I
- Any of the following not taken in the Required classes above:
CIS159, CIS162++, CIS163AA, CIS165++, CIS259, CIS262++, CIS263AA, CIS265

General Education:

- ENG101 or ENG107 ENG102 or ENG108
- COM100, 110, 225, or 230 CRE101 (0-3 credits)
- MAT150 or Higher (3-5 credits) Any HU Class
- SBU200, ECN211, or ECN212
- Any SG or SQ Science (4 credits)

Where should I start if I am new to IT?

- CIS105 Survey of Computer Info. Systems
- CIS133DA: Web Development-Level I

Notes:

1. These programs are effective Spring 2020.
2. All Classes are 3 credits unless otherwise noted.