

**Programming & Systems
Analysis
AAS - 3844
(Effective Fall 2018)**

Degree Requirements: 64 –70 Credits*

Required Courses: 36-37 credits

ACC111	Accounting Principles I	3
CIS105	Survey of Computer Info. Sys. [SUN# CIS1120]	3
CIS224	Project Mgmt: Microsoft Project	3
CIS150++	Any Programming Fund. course	3
CIS166++	Any Scripting course	3
CIS190	Introduction to Local Area Networks	3
GBS233	Business Communication	3
CIS126DL	Linux Operating System	3
CIS225++ CIS250	Any analysis and design course or Management Information Systems	3
CIS276DA	My SQL Database	3

Select Two:

CIS163AA	Java Programming I	3
CIS159	Visual Basic Programming I	3
CIS162++	Any Level I C language course	3

Restricted Electives: 6 credits

CIS259	Visual Basic Programming II	3
CIS262++	Any Level II C language course	3
CIS263AA	Java Programming II	3

**General Studies Requirements:
22 - 27 credits**

First-Year Composition:

ENG101	First Year Composition or [SUN# ENG1101]	3
ENG107	First Year Composition for ESL	3

ENG102	First Year Composition or [SUN# ENG1102]	3
ENG108	First Year Composition for ESL	3

Oral Communications:

	Any approved General Studies course in oral communications.	3
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Critical Reading:

CRE101	College Critical Reading (3) or Equivalent as indicated by assessment (0)	0-3
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Mathematics:

MAT150	College Algebra/Functions [Could be 150, 151, or 152]	3-5
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Humanities, Arts and Design:

	Any approved general studies course in the Humanities & Fine Arts.	3
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Natural Sciences:

	Any approved general studies course in the Natural Sciences area. [Must include or be accompanied by a lab course]	4
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Social—Behavioral Sciences:

SBU200	Society and Business or ECN211 Macroeconomic Principles or [SUN# ECN2201]	3
ECN212	Microeconomic Principles [SUN# ECN2202]	3

Note: All courses must be completed with a grade of C or better.

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Program Director
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**Programming & Systems
Analysis
CCL - 5048
(Effective Fall 2018)**

**Certificate Requirements:
24 Credits**

Program Notes: Students must earn a grade of “C” or better in each course.

Required Courses: 21 Credits

CIS105	Survey of Computer Info. Sys.	3
CIS150++	Any Prog. Fund. Course	3
CIS224	Project Management MP	3

Select One From Each Group:

CIS126DA	UNIX Operating System or CIS126DL Linux Operating System	3
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CIS159	Visual Basic Programming I or CIS162++ Any Level I C Language or CIS163AA Java Programming I	3
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CIS225++	Any Analysis & Design Course or CIS250 Management of Info. Sys.	3
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CIS276DA	My SQL Database	3
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Restricted Electives: 3 Credits

Select One:

CIS259	Visual Basic Programming II	3
CIS262++	Any Level II C lang. course	3
CIS263AA	Java Programming II	3