

Computer Programming and Analysis - Mobile Applications Development

Associate in Science | Code: 25070 | 60 credits

CIP (1511020101)

Effective Term: Spring 2025 (2253)

The Computer Programming and Analysis program provides an opportunity to establish a foundation in computer programming in scientific, commercial, industrial and government data processing applications. The Mobile Applications Development concentration additionally offers hands-on instruction with current technology for Apple and Android mobile device platforms. Graduates are prepared for positions as app developers.

GENERAL EDUCATION REQUIREMENTS (15.00 Credits)

COMMUNICATIONS (3.00 credits)

ENC 1101 English Composition 1 (3 credits) Prerequisite: Student must meet the

Developmental Education reading and writing requirements in State Rule 6A-10.0315 (by course, placement score, or

eligible exemption).

HUMANITIES (3.00 credits)

ARH 1000	Art Appreciation	(3 credits)	
HUM 1020	Introduction to Humanities	(3 credits)	
LIT 2000	Introduction to Literature	(3 credits)	Prerequisite: ENC 1101
MUL 1010	Music Appreciation	(3 credits)	
PHI 2010	Introduction to Philosophy	(3 credits)	
THF 2000	Theatre Appreciation	(3 credits)	

MATHEMATICS (3.00 credits)

MAC 1105 College Algebra (3 credits) Prerequisite: MAT 1033•

NATURAL SCIENCE (3.00 credits)

AST 1002	Descriptive Astronomy	(3 credits)
BSC 1005	General Education Biology	(3 credits)
CHM 1020	General Education Chemistry	(3 credits)
ESC 1000	General Education Earth Science	(3 credits)
EVR 1001	Introduction to Environmental Science	(3 credits)
GLY 1010	Physical Geology	(3 credits)
OCE 1001	Introduction to Oceanography	(3 credits)
PHY 1020	General Education Physics	(3 credits)

SOCIAL SCIENCE (3.00 credits)

AMH 2010	History of the US to 1877	(3 credits)
AMH 2020	History of the US Since 1877	(3 credits)
POS 2041	American Federal Government	(3 credits)

COMPUTER COMPETENCY

Test type(s) needed:

Computer Competency Test (CCT)

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CGS 1060C Introduction to Computer Technology and Applications

[•]Note: Students must seek advisement for proper mathematics course from discipline chairperson.

MAJOR COURSE REQUIREMENTS (21.00 Credits)

CGS 1060C	Introduction to Computer Technology and Applications	(4 credits)	
CGS 1540C	Database Concepts and Design	(4 credits)	
CIS 2331	Systems Analysis, Designand Implementation	(5 credits)	
COP 1334	Introduction to C++ Programming	(4 credits)	
COP 2800	Java Programming	(4 credits)	Prerequisite: COP 1047C, COP 1334, or COP 2270

PROGRAM CONCENTRATION CORE (16.00 credits)

334
2800
P

PROGRAM ELECTIVES (8.00 Credits)

CAI*, CEN*	, COP*,	CTS*
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Professional Ethics and Social Issues in CS	(4 credits)
Electrical Fundamentals	(4 credits)
Applied Artificial Intelligence (AI) in Business	(3 credits)
Artificial Intelligence (AI) Ethics	(3 credits)
	Electrical Fundamentals Applied Artificial Intelligence (AI) in Business