

COMPUTER INFORMATION TECHNOLOGY - DEVELOPER, ASSOCIATE IN APPLIED SCIENCE DEGREE

NMC Code 108

As everyone and everything becomes networked, the demand for software applications continues to expand. The CIT Developer program targets this need by producing graduates who are effective programmers and solution architects. Courses in the Developer Program utilize various languages, frameworks, and technologies to deliver practical knowledge of application development and data access. The program's focus on a solid understanding of good design practices enables students to easily transition into new development environments. Students considering transfer should see an advisor.

This degree program is designed to prepare students for the following internationally recognized certifications:

- Certiport Information Technology Specialist - Python
- Certiport Information Technology Specialist - Software Development
- Certiport Information Technology Specialist - HTML & CSS
- Certiport Information Technology Specialist - Databases
- Certiport Information Technology Specialist - JavaScript
- Certiport Information Technology Specialist - Networking
- CompTIA Network+® certification

Program Notes

- Some advanced CIT courses require students to bring their own Windows computer. See course descriptions.
- Transfer students should consult with their university advisor about the best choice of electives.
- This program requires a minimum of 60 credits. Courses tested out or waived must be replaced with approved program electives.

Requirements

Major Requirements

Course	Title	Credits
General Education Requirements		
ENG 111	English Composition	4
ENG 112	English Composition	3-4
or ENG 220	Technical Writing	
PHL 105	Critical Thinking	3
or PHL 202	Contemporary Ethical Dilemmas	
Math Competency ¹		
Any Group 1	Science course with lab	4
Any Group 1	Social Sciences course	3
Occupational Specialty Courses		
CIT 110	Programming Logic and Design	3
CIT 178	Relational Databases ²	3
CIT 180	Web Development ²	3

CIT 190	JavaScript Programming ²	3
CIT 195	Application Development	3
CIT 213	Networking Technologies ²	4
CIT 218	Web Application Development	3
CIT 228	Advanced Database Systems ²	3
CIT 255	Object-Oriented Programming ²	3
CIT 280	Systems Analysis and Design	4
CIT 290	CIT Internship ³	3

Specialty Electives

Select two courses from the list 5-6

Directed Elective

Select one course from the list 3-4

Total Credits 60-63

Directed electives

Directed Electives

Course	Title	Credits
ACC 121	Accounting Principles I	4
BUS 155	Interpersonal Communications	3
BUS 231	Professional Communications	3
COM 111	Public Speaking	4

Specialty Electives

Course	Title	Credits
Any CIT Courses		2-4
MKT 208	Digital Marketing	2
VCA 125	Typography I	3
VCA 127	Digital Imaging	3
VCA 147	Web Design I	3
VCA 150	Digital Graphics Design I	3

1

Placement into MTH 121 College Algebra, or higher, or completion of MTH 111 Intermediate Algebra. The four credits of MTH 111 Intermediate Algebra **do not** count toward total CIT program credits.

2

Certiport Information Technology Specialist certification exam included.

3

Students planning to take the internship class require department approval and are required to have a GPA of 3.0 in their CIT classes. It is also recommended that students have 20 credits in CIT classes and an overall GPA of 2.0. *While a 3.0 GPA in classes is required for this internship, an alternative, campus-based internship opportunity is available for students who do not meet this requirement.*

specialty electives

Directed Electives

Course	Title	Credits
ACC 121	Accounting Principles I	4
BUS 155	Interpersonal Communications	3
BUS 231	Professional Communications	3
COM 111	Public Speaking	4

Specialty Electives

Course	Title	Credits
Any CIT Courses		2-4
MKT 208	Digital Marketing	2
VCA 125	Typography I	3
VCA 127	Digital Imaging	3
VCA 147	Web Design I	3
VCA 150	Digital Graphics Design I	3

1
 Placement into MTH 121 College Algebra, or higher, or completion of MTH 111 Intermediate Algebra. The four credits of MTH 111 Intermediate Algebra **do not** count toward total CIT program credits.

2
 Certiport Information Technology Specialist certification exam included.

3
 Students planning to take the internship class require department approval and are required to have a GPA of 3.0 in their CIT classes. It is also recommended that students have 20 credits in CIT classes and an overall GPA of 2.0. *While a 3.0 GPA in classes is required for this internship, an alternative, campus-based internship opportunity is available for students who do not meet this requirement.*

Course Sequence Guide

Course	Title	Credits
Year 1		
Fall		
CIT 110	Programming Logic and Design	3
CIT 178	Relational Databases ²	3
CIT 180	Web Development ²	3
ENG 111	English Composition	4
Math Competency ¹		
Credits		13

Spring		
CIT 190	JavaScript Programming ²	3
CIT 195	Application Development	3
CIT 213	Networking Technologies ²	4
CIT 228	Advanced Database Systems ²	3
ENG 112 or ENG 220	English Composition or Technical Writing	3-4
Credits		16-17

Year 2		
Fall		
Select two of the following Specialty Electives:		5-6
Any CIT course		
MKT 208	Digital Marketing	
VCA 125	Typography I ³	
VCA 127	Digital Imaging ³	
VCA 150	Digital Graphics Design I ³	
VCA 147	Web Design I	
CIT 218	Web Application Development	3
CIT 255	Object-Oriented Programming ²	3
Select one of the following Directed Electives:		3-4

ACC 121	Accounting Principles I	
BUS 155	Interpersonal Communications	
BUS 231	Professional Communications	
COM 111	Public Speaking	
Science with lab (see Gen Ed requirements)		4
Credits		18-20
Spring		
CIT 280	Systems Analysis and Design	4
CIT 290	CIT Internship ⁴	3
PHL 105 or PHL 202	Critical Thinking or Contemporary Ethical Dilemmas	3
Social Science (see Gen Ed Requirements)		3
Credits		13
Total Credits		60-63

1
 Placement into MTH 121 College Algebra or higher, or completion of MTH 111 Intermediate Algebra. The four credits of MTH 111 Intermediate Algebra **do not** count toward total CIT program credits.

2
 Certiport Information Technology Specialist certification exam included.

3
 Adobe Certified Associate certification exam is included.

4
 Students planning to take the internship class require department approval and are required to have a GPA of 3.0 in their CIT classes. It is also recommended that students have 20 credits in CIT classes and an overall GPA of 2.0. *While a 3.0 GPA in CIT classes is required for this internship, an alternative, campus-based internship opportunity is available for students who do not meet this requirement.*