

## Associate in Applied Science Degree

# COMPUTER TECHNOLOGY - PROGRAMMING

### Programming

With the widespread use of computers around the world, there is an ongoing need for skilled computer specialists. The associate degree in Computer Technology - Programming Emphasis prepares students for entry-level positions in a vast number of industries. After completing a year in general computer courses, students choose an emphasis in Programming or Networking. The Programming emphasis provides skills in a variety of programming languages, such as Visual Basic, Java, PHP, HTML, Mobile Apps, and SQL. Graduates will be equipped to find employment as business-application programmers, database managers, and system analysts. They can also plan, design, and develop programming applications, as well as create and host web applications. These valuable skills enable graduates to work in IT for small businesses, public and private corporations, and in private practice.

#### PROGRAM INFORMATION

##### Course Sequence and Progression Requirements

A minimum grade of "C" or better is required for all CPT and IST-prefixed courses for progression and graduation.

#### CURRICULUM SEQUENCE

##### First Semester - Fall

CPT 168	Programming Logic Design	3
CPT 170	Microcomputer Applications	3
CPT 209	Computer Systems Management	3
MAT 101	Beginning Algebra*	3
PHI 103	Workplace Ethics*	3
	TOTAL	15

##### Second Semester - Spring

CPT 187	Object Oriented Logic Design	3
CPT 270	Advanced Microcomputer Applications	3
IST 166	Network Fundamentals	3
IST 190	LINUX Essentials	3
MAT 122	Finite College Mathematics*	3
	TOTAL	15

##### Third Semester - Summer

CPT 236	Introduction to Java Programming	3
ENG 155	Communications I*	3
IST 192	LINUX Network Applications	3
IST 226	Internet Programming	3
PSY 103	Human Relations*	3
	TOTAL	15

##### Fourth Semester - Fall

CPT 162	Intro. to Web Page Publishing	3
CPT 242	Database	3
GMT 101	Intro to Geographic Info Systems	3
IST 271	Object Oriented Technologies	3
	Elective**	3
	TOTAL	15

##### Fifth Semester - Spring

ENG 160	Technical Communications*	3
CPT 262	Advanced Web Page Publishing	3
CPT 264	Systems and Procedures	3

(Continued)

Elective or CWE (Choose two)***	6
TOTAL	15
<b>TOTAL CREDIT HOURS</b>	<b>75</b>

\*Students interested in the Transfer University Parallel Programs should substitute the following courses: MAT 110 College Algebra for MAT 101 Beginning Algebra; PSY 201 General Psychology for PSY 103 Human Relations; ENG 101 English Composition I; ENG 102 English Composition II; SPC 205 Public Speaking for ENG 155 Communications I and ENG 160 Technical Communications; and PHI 110 Ethics for PHI 103 Workplace Ethics.

\*\*Fourth semester elective: ARV 121, CPT 280 or CWE

\*\*\*Fifth semester electives: CPT 237, CPT 280, IST 236 or CWE