

# Computer Technology: Computer Programming

## Degree Type

Associate in Applied Science

### ASSOCIATE DEGREE IN APPLIED SCIENCE MAJOR IN COMPUTER TECHNOLOGY

The mission of the Computer Technology program is to fulfill the community's need for a competent workforce and economic growth by providing instruction in programming, mobile applications, network security, information technology and data assurance. The program prepares students in comprehensive current and cutting-edge educational programs, in order to cultivate knowledge planning, design and implementation of computer networks, cloud computing, systems analysis, database management, mobile-applications design and high-level object-oriented programs. In an age of technology where various devices such as manufacturing equipment, automobiles and even basic home appliances have access to the internet the need to properly understand, configure, design and maintain those devices are of the utmost importance.

Students opting to concentrate their studies in the Computer Programming (69 credit hours) area learn the concepts, principles and techniques of software production with both procedural and high-level object-oriented programming languages such as Python, JAVA and Database Fundamentals. Students are also required to take courses in web design that include topics such as HTML and ASP. Career opportunities in this area include the positions of Database Specialist, Computer Programmer and Site Administrator.

The Computer Technology field calls for the ability to work with abstract concepts and to perform exacting technical analyses. It is recommended that students entering this program have a strong analytical and math background.

OCtech's Computer Technology program is accredited by the Association of Collegiate Business Schools and Programs (ACBSP).

### MAJOR IN COMPUTER TECHNOLOGY - COMPUTER PROGRAMMING 69 SEMESTER HOURS

## Fall I

Course Number	Title	Credits
MAT-101	Beginning Algebra	3
CPT-104	Introduction to Information Technology	3
ENG-101	English Composition	3
CPT-170	Microcomp Applications	3
CPT-167	Introduction to Programming Logic	3

## Spring I

Course Number	Title	Credits
CPT-114	Computers and Programming	3
CPT-200	Database Design I	3
CPT-202	SQL Programming I	3
IST-166	Network Fundamentals	3
IST-190	LINUX Essentials	3

## Summer I

Course Number	Title	Credits
CPT-201	Database Design II	3
CPT-203	SQL Programming II	3
CPT-236	Introduction to Java Programing	3
IST-257	LAN Network Server Technologies	3

## Fall II

Course Number	Title	Credits
CPT-237	Advanced Java Programming	3
ECO-201	Economics Concepts	3
IST-226	Internet Programming	3
IST-235	Handheld Computer Programming	3
SPC-205	Public Speaking	3

## Spring II

Course Number	Title	Credits
CPT-264	Systems and Procedures	3
CPT-268	Computer End-User Support	3
CPT-275	Computer Technology Senior Project	3
	Humanities Elective (3 credits)	3
	<b>Total Credits</b>	<b>69</b>