

Associate in Applied Science Degree

COMPUTER TECHNOLOGY - PROGRAMMING

Computer Technology - 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 prepares students for entry-level positions in a vast number of industries. This degree provides skills in a variety of programming languages, such as Python, C#, 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.
- All CPT and IST courses have a 5-year time limit.

Required Courses

Computer Technology (Programming) Requirements

DEGREE REQUIREMENTS: COMPUTER TECHNOLOGY (PROGRAMMING)

Component	Course Title	Semester Credit Hours
GENERAL EDUCATION		
<i>Choose one of the courses listed below:</i>		
MAT 101	Beginning Algebra	3
MAT 102	Intermediate Algebra	3
MAT 110	College Algebra	3
MAT 120	Probability & Statistics	3
<i>Choose one of the courses listed below:</i>		
PSC 201*	American Government	3
PSY 201	General Psychology	3
<i>Choose one of the courses listed below:</i>		
ENG 101	English Composition I	3
ENG 155	Communications I	3
Must complete the classes listed below:		
SPC 205	Public Speaking	3
PHI 110	Ethics	3
	Credits	15
REQUIRED CORE SUBJECT AREAS		
CPT 187	Object-Oriented Logic and Design	3
CPT 264	Systems and Procedures	3
CPT 278	Computer Software Applications	3
CPT 230	C# Programming I	3
IST 190	LINUX Essentials	3
CPT 242	Database	3
	Credits	18
OTHER HOURS REQUIRED FOR GRADUATION		
CPT 162	Intro. to Web Page Publishing	3
CPT 168	Programming Logic and Design	3

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CPT 240	Internet Programming with Databases	3
CPT 262	Advanced Web Page Publishing	3
GMT 101	Introduction to Geographic Information Systems	3
IST 192	LINUX Network Applications	3
IST 196	Cloud Storage Fundamentals	3
IST 201	CISCO Internetworking Concepts	3
IST 226	Internet Programming	3
IST 271	Object-Oriented Technologies	3
and		
<i>Select two courses from the list below:</i>		
CPT 231	C# Programming II	3
CPT 280	SCWE in Computer Technology "Internship"	3
IST 236	Mobile and Wireless Appliances	3
Credits		36
Total Credit Hours		69

*Students transferring to a senior institution are recommended to take PSC 201 at HGTC to satisfy Reach Act requirements. The Reach Act was passed in 2021 by the General Assembly.