

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.

CURRICULUM SEQUENCE

First Semester - Fall	Course Title	Semester Credit Hours
CPT 168	Programming Logic and Design	3
CPT 278	Computer Software Applications	3
IST 201	CISCO Internetworking Concepts	3
MAT Elective	MAT 101, MAT 102, MAT 110 or MAT 120	3
	TOTAL	12
Second Semester - Spring		
CPT 187	Object-Oriented Logic and Design	3
ENG 101	English Communications I	3
or		
ENG 155	Communications I	
IST 190	LINUX Essentials	3
PHI 110	Ethics	3
SPC 205	Public Speaking	3
	TOTAL	15
Third Semester - Summer		
CPT 230	C# Programming I	3
IST 192	LINUX Network Applications	3
IST 226	Internet Programming	3
GMT 101	Introduction to Geographic Information Systems	3
	TOTAL	12
Fourth Semester - Fall		
CPT 162	Intro. to Web Page Publishing	3
CPT 242	Database	3
IST 196	Cloud Storage Fundamentals	3
IST 271	Object-Oriented Technologies	3
PSC 201*	American Government	3
or		
PSY 201	General Psychology	
	TOTAL	15

(Continued)

Fifth Semester - Spring

CPT 240	Internet Programming with Databases	3
CPT 262	Advanced Web Page Publishing	3
CPT 264	Systems and Procedures	3
Choose 2 from list below	6	
CPT 231	C# Programming II	
CPT 280	SCWE in Computer Technology "Internship"	
or		
IST 236	Mobile and Wireless Appliances	
	TOTAL	15
	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.