Associate of Science in Computer Science

Program Mission

The mission of the Computer Science program is to provide students with foundational knowledge and skills to enter a technology-enhanced workforce and to maintain currency with consistently changing technology.

Program Description

The Associate of Science in Computer Science will provide opportunities for students to work as system analysts who design computer systems for processing information, programmers who write instructions and translate them into a machine readable language, computer operators who monitor and control computer systems and retrieve results, and data entry personnel who enter information and instructions into the computer.

Program Student Learning Outcomes (SLOs):

Upon successful completion of the AS in Computer Science program, students will be able to:

1. Apply concepts and knowledge in the core areas of computer science.
2. Distinguish among basic networking systems, operating systems, and database structures.
3. Write code using programming languages, to include Java, Python, C++, PHP with MySQL and JavaScript.

General Education Requirements		
Course #	**Course Name**	**Credits**
EN110	English Composition	3
MA110A	Finite Mathematics	3
CS151	Windows Applications	3
XXXXX	Social & Behavioral Sciences Requirement	3
XXXXX	Humanities & Fine Arts Requirement	3-4
SIXXX	Natural & Physical Sciences Requirement	4
	Total	19-20

Technical/Core Requirements		
Course #	**Course Name**	**Credits**
CS101	Introduction to Computer Systems & Information Technology	3
CS104	Visual Basic Programming	3

Course #	Course Name	Credits
CS112	Introduction to Linux	3
CS203	Systems Analysis & Design	3
CS204	C ++ Programming	3
CS205	Network Communications	4
CS206	Java I	3
CS211	JavaScript Programming	3
CS212	Python Programming	3
CS213	PHP Programming with MySQL	3
CS299	Computer Science Capstone	4
OA211	Business Communication	3
Computer Science Elective (Choose 1)		
OA210	Database Management Systems	3-4
EE211	IT Essentials	
OA101	Keyboarding and Document Processing	
	Total	41-42
	Program Total	**60-62**

Associate of Science in Computer Science – Semester Breakdown

Year 1

Semester 1

Course #	Course Name	Credits
CS101	Introduction to Comp Systems & Info Tech	3
CS211	JavaScript Programming	3
CS151	Windows Applications	3
EN110	English Composition	3
MA110A	Finite Mathematics	3
	Total	**15**

Semester 2

Course #	Course Name	Credits
XXXXX	Computer Science Elective	3-4
CS212	Python Programming	3
CS213	PHP Programming with MySQL	3
CS205	Network Communications	4
XXXXX	Social & Behavioral Sciences Requirement	3
	Total	**16-17**

Year 1 Total	**31-32**

Year 2

Semester 3

Course #	Course Name	Credits
CS206	Java I	3
CS112	Introduction to Linux	3
CS104	Visual Basic Programming	3
CS204	C ++ Programming	3
CS203	Systems Analysis & Design	3
	Total	**15**

Semester 4

Course #	Course Name	Credits
CS299	Computer Science Capstone	4
OA211	Business Communication	3
XXXXX	Humanities & Fine Arts Requirement	3-4
SIXXX	Natural & Physical Sciences Requirement	4
	Total	**14-15**

Year 2 Total	**29-30**

Program Total	**60-62**