

# Computer Information Technology - Computer Programming Degree

281-756-3783

Associate of Applied Science Degree Program (A.A.S.) - Tech Prep

Purpose: The computer Information Technology curriculum develops in students the skills, knowledge, attitudes, and abilities which will enable them to function in positions of responsibility in the current employment market. Special emphasis is given to computer programming, and each student is urged to consult with the Counseling Center or faculty advisor.

Program Requirements: This curriculum in computer information technology is a two-year program encompassing instruction in the many areas required for competence as a technician in the computer science industry. Approximately one-half of the curriculum includes courses in computer technology, with the remaining courses in technically related areas: mathematics, business, and general education. This curriculum provides a broad background, qualifying the student to perform effectively in several different occupational areas of the computer information technology field. Upon completion of the two-year curriculum, with an overall grade point average of 2.0 for all computer science courses attempted, the student will be awarded the Associate in Applied Science Degree with a major in Computer Information Technology, specializing in business computer programming.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
<b>FIRST YEAR</b>				
First Semester				
COSC 1401 or BCIS 1405 or COSC 1415	Microcomputer Applications or Business Computer Applications or Fundamentals of Programming	3	3	4
BCIS 1431 or ITSE 1431	Programming in Visual Basic or Introduction to Visual BASIC Programming	3	3	4
1st Mini ITNW 1358	Network+	2	2	3
2nd Mini ITNW 1325	Fundamentals of Networking	2	2	3
ENGL 1301	Composition I	<u>3</u>	<u>0</u>	<u>3</u>
		13	10	17
Second Semester				
COSC 1436 or BCIS 1420 or ITSE 1422	Programming Fundamentals I or Introductory C Programming or Introduction to C Programming	3	3	4
IMED 2415 or ITSE 2402	Web Design or Intermediate Web Programming	3	3	4
*BCIS 2431 or ITSE 2449	Advanced Programming Visual Basic or Advanced Visual BASIC Programming	3	3	4
Elective	Speech Communication Core	3	0	3
ENGL 2311 or ENGL 1302	Technical Communication (preferred) or Composition II	<u>3</u>	<u>0</u>	<u>3</u>
		15	9	18
<b>SECOND YEAR</b>				
First Semester				
COSC 1437 or COSC 1420 or ITSE 1407	Programming Fundamentals II or Computer Programming - C++ or Introduction to C++ Programming	3	3	4
ITSE 2409	Database Programming	3	3	4
SOCI 1301 or ECON 2301	Introductory Sociology or Principles of Economics I	3	0	3
MATH 1314 or TECM 1403 or MATH 2413 or MATH 2414 or PHYS 2425 or PHYS 2426	College Algebra (preferred) or Technical Calculations or Calculus I or Calculus II or Physics I or Physics II	3/3	0/3	3/4
Elective	Visual & Performing Arts/Humanities Core	<u>3</u>	<u>0</u>	<u>3</u>
		15/15	6/9	17/18
Second Semester				
COSC 2436 or COSC 1430 or ITSE 2417	Programming Fundamentals III or Computer Programming - JAVA or JAVA Programming	3	3	4
COSC 2420	Advanced C++ Programming	3	3	4
CPMT 2445 or COSC 2425	Computer System Troubleshooting or Computer Organization and Machine Language	3	3	4
1st Mini ITMT 1302	Windows Seven Configuration	<u>2</u>	<u>2</u>	<u>3</u>
		11	11	15
* Capstone Course				
Total Credits Required for A.A.S. Computer Programming Degree.....				67-68

Mini-Semesters run 8 weeks and are scheduled back-to-back (e.g. 1st Mini=8wks + 2nd Mini=16wks)

Courses below prepare for the following certifications:

CompTIA Network+ Certification (ITNW 1358 and ITNW 1325)

Microsoft Certified IT Professional (MCITP) Certification (ITMT 2351)

\*\*\*ACC has a 2+2 agreement with UHCL.\*\*\*