

Computer Science Technology Field of Study Curriculum

Course Number	Course Title	Semester Credits	Hours
COSC 1336 or 1436	Programming Fundamentals I	3 or 4	
COSC 1337 or 1437	Programming Fundamentals II	3 or 4	
COSC 2336 or 2436	Programming Fundamentals III	3 or 4	
COSC 2325 or 2425	Computer Organization and Machine Language	3	
MATH 2313 or 2413	Calculus I	3 or 4	
MATH 2314 or 2414	Calculus II	3 or 4	
PHYS 2425	Physics I	4	
PHYS 2426	Physics II	4	
		26-31 SCH Total	

Associate in Applied Science - Computer Networking

281-756-3669

Length: Four Semesters (Two Year) Program

Purpose: The Computer Science Networking program would prepare students for careers in many areas of LAN/WAN administration and design. ACC is a valued member of the Microsoft IT Academy program and thus holds a leveraged position for success in a variety of career opportunities (e.g. installing, managing and maintaining Microsoft servers and networks worldwide). This 63 credit A.A.S. program is designed to include the Microsoft Certified System Administrator (MCSA) and/or Microsoft Certified System Engineer (MCSE) sequence. Program graduates will be prepared for both of these industry leading certification examinations as well as the more basic CompTIA Network+ generic certification. This College has one networked classroom lab on the main campus dedicated exclusively to the Network Administrator/Engineer curriculum.

	Course Number	Course Title	Lecture Hours	Lab Hours	Credits
FIRST YEAR					
First Semester					
1st Mini	ITNW 1358	Network+	2	2	3
2nd Mini	ITNW 1325	Fundamentals of Networking	2	2	3
	CPMT 1411	Introduction to Computer Maintenance	3	3	4
	SOCI 1301	Introductory Sociology	3	0	3
	COSC 1401	Microcomputer Applications	<u>3</u>	<u>3</u>	<u>4</u>
			13	10	17
Second Semester					
1st Mini	ITMT 1300	Installing & Administering Win XP Prof. Operating System	2	2	3
2nd Mini	ITMT 1340	Implementing Microsoft Win 2003 Server Operating System	2	2	3
	CPMT 2445	Computer System Troubleshooting	3	3	4
1st Mini	ITNW 2321	Networking with TCP/IP	2	2	3
2nd Mini	ITSY 1342	IT Security (Security+)	<u>2</u>	<u>2</u>	<u>3</u>
			11	11	16
SECOND YEAR					
First Semester					
	*Elective	Fine Arts/Humanities	3	0	3
1st Mini	ITMT 1350	Implementing Microsoft Windows Infrastructure	2	2	3
2nd Mini	ITMT 2300	Implementing & Administering Microsoft Windows Directory Services	2	2	3
	ENGL 1301	Composition I	3	0	3
	MATH 1333	Contemporary Mathematics for Tech	<u>3</u>	<u>0</u>	<u>3</u>
			13	4	15
Second Semester					
	ENGL 1302	Composition II	3	0	3
1st Mini	**ITMT 1355	Managing a Windows Network Environment	3	3	3
2nd Mini	ITMT 2330	Designing a Windows Directory Svcs Infrastructure	2	2	3
1st Mini	ITMT 2346	Designing a Secure Windows Network	2	2	3
2nd Mini	ITMC 2355	Deploy & Manage Microsoft ISA Server	<u>2</u>	<u>2</u>	<u>3</u>
			15	9	15

* Elective is optional but provides flexibility and broader development of the program and individual.

** Capstone Course is ITMT 1355 - Managing a Windows Network Environment

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

Total Credits Required for A.A.S of Computer Networking63