



INFORMATION TECHNOLOGY ASSOCIATE OF APPLIED SCIENCE

5400

COMPUTER NETWORK ADMINISTRATION AND SECURITY TECHNOLOGY

TECHNICAL Course Number	Course Title	Credits	Completed Sem./Year
ECA131	MS Windows Vista and 2003 Server	3	
ECA134	CCNA Phase I	2	
ECA135	CCNA Phase II	2	
ECA145	PC Upgrading and Maintenance	3	
ECA146	Introduction to Computer Networking	3	
ECA244	Microsoft Windows Server 2003 Network Infrastructure	3	
ECA245	Designing Security for a Windows 2003 Network	3	
ECA246	Administering, Implementing and Designing Directory Services	3	
ECA273	Microsoft SQL Server Administration	3	
ECA276	UNIX/LINUX Network Administration	3	
ECA277	UNIX/LINUX Operating Environment	3	
ECA278	Firewall and Network Security	3	
ECA279	Web Server Administration	3	
ECA299	▲ Network Management	3	
ECA284	▲ Voice over IP Fundamentals	3	
ECA250	▲ CCNA Phase III and IV (Required elective for U of Akron Articulation)	4	
ECA254	▲ UNIX/LINUX Shell Scripting	3	
ECA274	▲ UNIX/LINUX System Administration	3	
TOTAL		40/41	
BASIC/RELATED Course Number	Course Title	Credits	Completed Sem./Year
ECA122	Computer Applications for Technical Professionals	3	
ECA127	Programming Logic and Problem Solving	3	
MTH125	College Algebra	4	
MTH126	Pre-Calculus	4	
	Select one (1) physical science from BIO101, CHM101, or PHY101	3/4	
TOTAL		17/18	
NON-TECH Course Number	Course Title	Credits	Completed Sem./Year
COM121/123	Effective Speaking or Inter-group Communications	3	
ENG124	College Composition	3	
ENG224	Composition & Literature	3	
	Select one (1) Arts/Humanities/Social Science elective from the list below.	3	
TOTAL		12	
<i>TOTAL CREDIT HOURS</i>		<i>68/70</i>	

▲ Select 3-4 credit hours of electives.

Arts/Humanities/Social Science Electives: ACC236, PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121, ACC130

Rev 5/11/09

FULL-TIME STUDENT - ADVISING NOTES

1. ACADEMIC ADVISING - Each student should make an appointment to see their advisor every semester before registering for classes. Please have your registration form completed, including the courses you wish to take, for this meeting.
2. COURSE SEQUENCE - The semester-by-semester listing below gives the normal scheduling option for full-time associate degree students who plan to finish in two years. Some courses can be scheduled as beginning courses in other semesters depending upon course availability and advisor's recommendation. Those whose preadmission test indicates the need for it should schedule Introduction to Algebra before College Algebra. Introduction to Algebra and selected technical and general studies courses are available summer term.
3. TECHNICAL ELECTIVES - Some programs provide for technical electives. Consult with your academic advisor to determine course availability.
4. BACHELOR'S DEGREE - In most of the associate degree programs, some courses may be applied toward a bachelor's degree in technology. Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer. Please inform your advisor if you plan on completing a bachelor's degree after your SSCT engineering technology degree.

COMPUTER NETWORK ADMINISTRATION AND SECURITY TECHNOLOGY

<u>First Semester</u>		<u>Credit Hours</u>	<u>Prerequisite</u>
ECA122	Computer Applications for Technical Professionals	3	-
ECA127	Programming Logic and Problem Solving	3	-
ECA145	PC Upgrading and Maintenance	3	-
ECA146	Introduction to Computer Networking	3	-
MTH125	College Algebra	<u>4</u>	MTH101 or Test
		16	
 <u>Second Semester</u>			
ECA131	MS Windows Vista & 2003 Server	3	ECA145, ECA146
ECA134	CCNA Phase I	2	ECA146
ECA135	CCNA Phase II	2	ECA134
ECA244	Microsoft Windows Server 2003 Network Infrastructure	3	ECA145, ECA146
ECA277	UNIX/LINUX Operating Environment	3	ECA127
MTH126	Pre-Calculus	<u>3</u>	MTH125
		16	
 <u>Third Semester</u>			
ENG124	College Composition	3	ENG101 or Test
	Arts/Humanities/Social Science elective	<u>3</u>	-
		6	
 <u>Fourth Semester</u>			
COM121/123	Effective Speaking or Inter-group Communications	3	ENG124
ECA273	MS SQL Server Administration	3	ECA131
ECA276	UNIX/LINUX Network Administration	3	ECA221
	Physical science elective	3/4	Co-MTH125
ECA299	▲ Network Management	(3)	ECA145, ECA146
ECA250	▲ CCNA Phase III and IV	(4)	ECA135
ECA274	▲ UNIX/LINUX System Administration	(3)	ECA221
ECA254	▲ UNIX/LINUX Shell Scripting	(3)	ECA254
ECA284	▲ Voice over IP Fundamentals	<u>(3)</u>	ECA284
		15/17	
 <u>Fifth Semester</u>			
ECA245	Designing Security for a Windows 2003 Network	3	ECA244
ECA246	Implementing, Administering & Designing Directory Services	3	ECA244
ECA278	Firewall and Network Security	3	ECA135
ECA279	Web Server Administration	3	ECA276 or ECA274
ENG224	Composition & Literature	<u>3</u>	ENG124
		15	
 TOTAL CREDITS		 68/70	