

# Enterprise Communication Systems#

## Associate in Applied Science

Minimum of 61 Credits

This plan of study is part of a cooperative alliances with Francis Tuttle Technology Center. Major courses in this degree plan are offered at Francis Tuttle. This plan of study was developed through a collaborative effort among Cisco, Cox Communications, Southwestern Bell, and WorldCom

Enterprise communication systems are one of the fastest growing fields in the United States. Advances in technology and applications come every day with innovations in fiber optics, satellite and microwave communications; long-distance link ups of computers, and even the household telephone. This plan of study will give the student the opportunity to train on the latest systems and test equipment. The program will cover the latest trends in communications equipment and techniques. In conjunction with Networks, PC Hardware Servers, Routers, ISDN, Frame Relay, Solaris, Linux, Windows 2000 and Ethernet Switches, a student may train on microwave equipment. The graduate will be prepared to work in the areas of installation, design of WAN systems maintenance, and the repair of various components of telecommunications systems. Also, the student will design an Enterprise Communications system. Upon completion of this plan of study, students may be prepared to take some of the following certification examinations: Network +, Cisco Certified Network Associate (CCNA) Server+, BICSI, I-Net+, Solaris Administrator, A+, Cisco Certified Network Professional (CCNP), Cisco Certified Design Administrator (CCDA), JAVA 2 Programmer, WOW Certified Web Designer Apprentice (CWDSA), Windows 2000 MCP, and LINUX+.

Course ID	Course Name	Credits	Type	Prerequisites
<b>Suggested Freshman 1st Semester</b>				
SCL 1001	SUCCESS IN COLLEGE AND LIFE	1	LIFE SKILLS	NONE
ECS 1214	PC HARDWARE AND SOFTWARE	4	MAJOR	(R), (W), (M)
ECS 1314	NETWORKING FUNDAMENTALS	4	MAJOR	(R), (W), (M)
ENGL 1113	ENGLISH COMPOSITION I	3	GEN ED	(R) (W), ADEQUATE READING AND WRITING ASSESSMENT SCORES OR LS 0033 COLLEGE WRITING II, EITHER TAKEN WITHIN THE LAST YEAR, WITH STRONG ENCOURAGEMENT FOR IMMEDIATE CONTINUATION.
FA MATH	FACULTY APPROVED MATHEMATICS ELECTIVE	3	SUPPORT	
GEN ED	GEN ED ELECTIVE	3	GEN ED	
<b>Freshman 2nd Semester</b>				
ECS 1334	ROUTING TECHNOLOGIES	4	MAJOR	ECS 1314 NETWORKING FUNDAMENTALS
ECS 2224	NETWORK OPERATING SYSTEMS	4	MAJOR	ECS 1214 PC HARDWARE AND SOFTWARE
HIST 1483	U.S. HISTORY TO THE CIVIL WAR —OR—		GEN ED	(R) (W)
HIST 1493	U.S. HISTORY SINCE THE CIVIL WAR	3	GEN ED	(R) (W)
FA MAJOR	FACULTY APPROVED MAJOR ELECTIVE	3	MAJOR	
<b>Sophomore 1st Semester</b>				
ECS 2334	ADVANCED ROUTING AND SWITCHING	4	MAJOR	ECS 1334 ROUTING TECHNOLOGIES
OSRHE1	OSRHE APPROVED GENERAL EDUCATION COMMUNICATIONS OR ENGLISH COURSE*	3	GEN ED	
GEN ED	GEN ED ELECTIVE	3	GEN ED	
FA MAJOR	FACULTY APPROVED MAJOR ELECTIVE	6	MAJOR	
<b>Sophomore 2nd Semester</b>				
ECS 2364	ADVANCED NETWORK & DESIGN MANAGERMENTS	3	MAJOR	ECS 2334 ADVANCED ROUTING & SWITCHING
POLSC 1113	AMERICAN FEDERAL GOVERNMENT	3	GEN ED	(R) (W)
FA MAJOR	FACULTY APPROVED MAJOR ELECTIVE	6	MAJOR	

**Major Courses:** (39 credit hours) ECS 1214; ECS 1314; ECS 1334; ECS 2224; ECS 2334; ECS 2364; Major electives (15 credit hours) Fifteen credit hours of faculty approved electives

**General Education Courses:** (18 credit hours) English: ENGL 1113; Communications/English: To be chosen from COM 1123, COM 1323, COM 2213, or Advisor approved COM elective or ENGL 1213; History: HIST 1483 or HIST 1493; Political Science: PS 1113; Approved General Education Electives: Six credit hours

**Life Skills Courses:** (1 credit hour) Life Skills: SCL 1001

**Support Courses:** (3 credit hours) Mathematics: Three credit hours of faculty-approved mathematics that meet OCCC's mathematics proficiency requirements.

**Notes:** This technical/occupational program is designed to prepare students to enter the job force following completion. See Technical/Occupational Programs in the general information section of the catalog. Major courses are available only at Francis Tuttle Technology Center.

\* To be chosen from COM 1123, COM 1323, COM 2213, or Advisor approved COM elective or ENGL 1213

#Cooperative agreements have been established with Francis Tuttle Technology Centers.