Telecommunications Engineering Technology Concentration (9401)

Associate of Applied Science Degree

Telecommunications Engineering Technology graduates are prepared with the skills necessary to enter careers in the design, application, installation, operation, and/or maintenance of telecommunication systems.

Note: Students transferring to a four-year college are encouraged to take ENGL 1120 English Composition II *in addition to the following requirements.*

Course	Title	Credit Hours
First Semester		
ELEC 1120	Direct Current Circuit Analysis 🎓	2
ENGL 1110 or ENGL 1111	English Composition I (A) [1] or English Composition I (B)	3
ENGR 1000	Introduction to Engineering Technology 🎓	2
FYEX 1000	First Year Experience	1
MATH 1400	Technical Mathematics [2]	4
Select course(s) from the Arts and Humanities Electives list		3
	Credit Hours	**15**
Second Semester		
BUSM 1300	Introduction to Business	3
CPET 1120	C Prog for Technicians	3
ELEC 1220	Alternating Current Circuit Analysis 🎓	2
ELEC 1260	Direct Current and Alternating Current Laboratory 🎓	1
ELEC 1330	Digital Systems Fundamentals 🎓	2
ITIS 1007	Principles of Information Technology and Computer Science	3
PHYS 1550	Everyday Physics	3
	Credit Hours	**17**
Third Semester		
CIMN 1050	Blueprint Reading and Shop Math	3
CNET 1100	Cisco Networking Technology I 🎓	3
ELEC 2120	Linear and Switch-Mode Power Supplies 🎓	2
ELEC 2420	Microcontroller Applications 🎓	2
ELEC 2460	Digital Systems and Microcontroller Laboratory 🎓	1
ITON 1205	Network+ and Networking Essentials 🎓	2
Select course(s) from the Social and Behavioral Electives list		3
	Credit Hours	**16**
Fourth Semester		
COMM 1000 or COMM 1100	Effective Public Speaking or Effective Interpersonal Communications	3
CPET 2560	Introduction to Telecommunications Principles 🎓	2
ELEC 2150	Operational Amplifiers and Linear Integrated Circuits 🎓	2
ELEC 2170	Power Supply and Integrated Circuits Laboratory 🎓	1
ELEC 2610	Embedded Systems Project Lab 🎓	3
ITIS 1355	Security+ and Security Essentials 🎓	3
	Credit Hours	**14**
	Total Credit Hours	**62**

[1] English course selection is based on placement test results (ENGL 1111 English Composition I (B) is 4 credits, only 3 credits apply to the degree).

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2   Students planning to transfer to a four-year university should consider taking MATH 1650 College Algebra (A) and MATH 1700 Trigonometry

☞   This course is designated as a technical course in the program. Students must earn a "C" grade or higher in the course to fulfill the college's graduation requirements policy.

Electives

Course	Title	Credit Hours
Arts and Humanities Electives		
ARTS 1120	Art Appreciation	3
ARTS 2220	Survey of Art I	3
ARTS 2230	Survey of Art II	3
ENGL 2250	Survey of American Literature I	3
ENGL 2260	Survey of American Literature II	3
ENGL 2280	Survey of British Literature I	3
ENGL 2290	Survey of British Literature II	3
HUMX 1100	Introduction to Humanities	3
MUSC 1200	Music Appreciation	3
MUSC 1215	World Music	3
MUSC 1800	Popular Music: Rock, Jazz, Country, and Hip-Hop	3
MUSC 2200	Music History and Literature I	3
MUSC 2250	Music History and Literature II	3
PHIL 1500	Introduction to Philosophy	3
PHIL 2000	Comparative Religion	3
PHOT 1000	History of Photography	3
Social and Behavioral Sciences Electives		
ANTH 1160	Introduction to Cultural Anthropology	3
ECON 1150	Basic Economics	3
ECON 2500	Principles of Macroeconomics	3
ECON 2600	Principles of Microeconomics	3
GEOG 1500	Introduction to Geography	3
GEOG 1600	World Regional Geography	3
HIST 1150	Western Civilization I: Antiquity Through the Reformation	3
HIST 1250	Western Civilization II: Age of Revolution Through the Present	3
HIST 2150	U.S. History: Colonization Through Reconstruction	3
HIST 2250	U.S. History: Reconstruction to the Present	3
POLS 1300	U.S. National Government	3
POLS 2500	Modern Political Ideologies	3
PSYC 1500	Introduction to Psychology	3
SOCY 1150	Principles of Sociology	3

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