

TELECOMMUNICATIONS TECHNOLOGY (TETD)

ASSOCIATE IN APPLIED SCIENCE (A.A.S.) DEGREE

Knight Campus, Warwick

The Telecommunications Technology program introduces students to today's telecommunications environment and its underlying technology.

Courses in this program teach concepts and skills for the transmission of voice, video, graphics and text data over various analog and digital networks. Topics covered include analog and digital signals, modulation, transmission, multiplexing systems, telecommunications regulatory issues, standard bodies, voice technology fundamentals, telecommunications network traffic, transmissions facilities, network providers and services, customer services, customer premises equipment and services for voice communications, transmission carrier services, customer services, customer premises equipment and services for voice communications, transmission carrier services, and wireless telecommunications technologies. Contemporary topics include T-1 systems, Digital Subscriber Line (DSL) technology, cable modems, ISDN, SONET, Asynchronous Transfer Mode (ATM) and Frame Relay,

Graduates of this program have skills in problem solving, circuit analysis, networking and telecommunications fundamentals. Integrated into the program are also courses that prepare the student for the CISCO CCNA examination. Opportunities for graduates in the program include jobs in the telecommunications industry in manufacturing and service sectors in research, design, development, manufacturing, technical support, field service and sales support.

Full-Time Students should take courses in this sequence: **1st Semester:**

COMI 1100, ENGL 2100, ENGR 1020, ETEK 1030, MATH 1700 **2nd Semester:** ENGR 2320, ETEK 1060, 1120, MATH 1710, CSCO 1850

3rd Semester: COMI 1840, CSCO 1860, ETEK 2010, 2220, Liberal Arts Elective

4th Semester: CSCO 1870, 1880, ETEK 2020, PHYS 1080, Liberal Arts Elective

Tips:

Since several courses are required in all Engineering and Technology concentrations, students may transfer between concentrations more easily, without losing much educational time.

GENERAL EDUCATION REQUIREMENTS

COURSE NO.	COURSE TITLE	CREDITS
<input type="checkbox"/> COMI 1100	Introduction to Computers	3
<input type="checkbox"/> COMI 1840	Computer Networking Software	3
<input type="checkbox"/> ENGL 2100*	Technical Writing*	3
<input type="checkbox"/> Liberal Arts Electives	Select 6 credits from: THEA, MUSC, CHIN, FREN, PORT, GERM, RUSN, JAPN, SPAN, ITAL, MATH (except 0500, 0600, 0700), ASTR, CHEM, OCEN, BIOL, GEOL, PHYS, ECON, PHIL, PSYC, GEO, POLS, SOCS, HIST	6
<input type="checkbox"/> MATH 1700*	Algebra for Technology*	3
<input type="checkbox"/> MATH 1710*	Trigonometry for Technology*	3
<input type="checkbox"/> PHYS 1080	Fundamentals of Optical Communications	4
Total General Education Credits		25

* Placement test required

Part-Time Students:

Should take a balance of General Education and Major Requirements each semester

MAJOR REQUIREMENTS

COURSE NO.	COURSE TITLE	CREDITS
<input type="checkbox"/> ENGR 1020	Introduction to Engineering and Technology	3
<input type="checkbox"/> ENGR 2320	Digital Electronics	4
<input type="checkbox"/> ETEK 1030	Fundamentals of Circuit Analysis I	4
<input type="checkbox"/> ETEK 1060	Fundamentals of Circuit Analysis II	4
<input type="checkbox"/> ETEK 1120	Electronic Devices and Circuits I	4
<input type="checkbox"/> ETEK 2010	Telecommunications I	4
<input type="checkbox"/> ETEK 2020	Telecommunications II	4
<input type="checkbox"/> ETEK 2220	Electronic Devices and Circuits II	4
<input type="checkbox"/> CSCO 1850*	Networking Technology *	3
<input type="checkbox"/> CSCO 1860*	Intermediate Networking Technology*	3
<input type="checkbox"/> CSCO 1870*	LAN Design/Management*	3
<input type="checkbox"/> CSCO 1880*	WAN Design/Management *	3
Total Major Requirements Credits		42

* Can be taken in 7 1/2 weeks (4 hr. lecture, 4 hr. lab) or 15 weeks (2 hr. lecture, 2 hr. lab)

Total Program Credits

67