ELECTRONICS TECHNOLOGY (ETEK)

ASSOCIATE IN SCIENCE (A.S.) DEGREE

Knight Campus, Warwick only

The Electronic Technology program gives students a well-rounded education in order to prepare them for a wide selection of career choices in electronics and computer technology. The program is designed to develop proficiency in the fundamentals of circuit analysis, electronic devices, digital electronics, computer software and hardware, computer networking and communications systems. Students also develop problem solving, written and oral communications and teamwork skills. The program includes numerous hardware and software laboratory experiences to reinforce lectures and develop hands-on skills essential for technicians and engineers. Each student is required to maintain a portfolio throughout their course of study and complete a technical capstone project during the final semester to demonstrate project management skills, report writing and oral presentations. This background prepares students for a broad selection of positions in design, research and development, testing, quality assurance, installation and maintenance, field service, and technical and sales support of electronic and computer-based products and systems.

Full-time students should take courses in this sequence:

First Semester:
MATH 1200, ENGL 2100, ENGR 1020, ETEK 1030

Second Semester:
MATH 1210, PHYS 1050, ETEK 1060, ETEK 1120

Third Semester:
ENGR 2320, ENGT 1100, ETEK 2390, ETEK 2280, Social Science Elective

Fourth Semester:
ENGR 2520, ETEK 2370, ETEK 2360, ETEK 2280, Social Science Elective

Part-time students:
Should take a balance of General Education and major requirements each semester.

General Education Requirements

COURSE NO.	COURSE TITLE	CREDITS
❑ ENGL 2100*	Technical Writing	3
❑ MATH 1200* (P)	College Algebra	3
❑ MATH 1210* (P)	College Trigonometry	3
❑ PHYS 1050	Physics for Technology	4
❑ Social Science Electives:	See pg. 17 for list of courses that meet this requirement	6
❑ SPCH 1100	Oral Communication	3
Total General Education Credits		**22**

* Placement test required

Major Requirements

COURSE NO.	COURSE TITLE	CREDITS
❑ ENGR 1020 (P)(C)	Introduction to Engineering and Technology	3
❑ ENGR 2320	Digital Electronics	4
❑ ENGR 2520	Microprocessors and Microcomputers	4
❑ ENGT 1100	Engineering Applications of Computers	2
❑ ETEK 1030 (C)	Fundamentals of Circuit Analysis I	4
❑ ETEK 1060 (P)(C)	Fundamentals of Circuit Analysis II	4
❑ ETEK 1120 (P)(C)	Electronic Devices and Circuits I	4
❑ ETEK 2280 (P)	Electronic Communications	3
❑ ETEK 2360 (P)	Intro to Computer Networking Systems	3
❑ ETEK 2390 (P)	Industrial Electronics	4
❑ ETEK 2370 (P)	Technical Capstone Project	2
❑ COMI 1100	Introduction to Computers	3
Total Major Requirements Credits		**40**

Total Program Credits ***63***

TIP:

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

(C) *Corequisites: Take during the same semester.*

(P) *This course has a prerequisite. See Course Descriptions section for class hours, prerequisites and corequisites.*