

Electrical Engineering Technology

Associate in Applied Science

Program supervisor:

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Electrical Engineering Technology emphasizes the theory and the application of scientific and engineering methods, and prepares the student for immediate employment or for transfer to an upper division school upon graduation.

The graduate is prepared to be the intermediary between the design engineer and the skilled craftsman. EETs translate problems into solutions by building equipment using their knowledge of mathematics, physics, linear and digital electronics, microprocessor hardware and software, machines, robotics, process control, circuit analysis, and computer programming.

This program may require more than two years to complete if an entering student has not completed the admissions requirements for the program (pgs 12 and 13). Students lacking any of these courses may be required to take developmental mathematics courses to prepare for MAT130 Applied Algebra and Trigonometry, and PHY090 Preparatory Physics.

The Electrical Engineering Technology program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET).

SEQUENCE OF COURSES: This model is a two-year course schedule for students meeting all program requirements and deciding to pursue full-time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part-time study.

FIRST YEAR

Credits

Fall Semester

EET107	Electronic Computer Applications	3
EET111	Electrical Construction Laboratory	2
EET121	DC & AC Circuits and Laboratory	5
TEC100	Technology Orientation	0.5
ENG110	College Writing I	3
MAT130	Applied Algebra & Trigonometry.....	4

17.5

Spring Semester

EET112	Electronic Fabrication Laboratory.....	1
EET150W	Electronic Devices & Laboratory	4
EET162	Computer Aided Network Analysis Lab	1
MET113	Engineering Drawing I w/CAD.....	2
CST123	Visual Basic for Technology	3
ENG150	Technical Writing.....	3
MAT160	Applied Calculus I.....	4

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SECOND YEAR

Fall Semester

EET247W	Energy Conversions & Automation & Lab	4
EET251	Electronic Circuitry and Laboratory	4
EET260	Digital Electronics	3
SOS120	Science, Tech. & Democratic Society	3
PHY161	Physics I.....	4

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Spring Semester

EET201	Senior Seminar	0
EET230	Electronic Design Project	1
EET252	Electronic Communications Systems & Lab.....	4
EET267	Microprocessors	3
EET270	Control Systems & Robotics and Laboratory	4
PHY162	Physics II.....	4
_____	Social Science Elective.....	3

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¹ Students should consult with the department chairperson or designee to determine the appropriate mathematics course.

GRADUATION REQUIREMENTS: 72.5 CREDITS