ELECTRICAL ENGINEERING TECHNOLOGY MAJOR (B.S.)

https://manchester.unh.edu/program/bs/electrical-engineeringtechnology-major

Description

Engineering technology requires the application of engineering and scientific knowledge and methods combined with technical skills in support of engineering activities. Graduates may work in a variety of areas including engineering design, manufacturing, field service, testing, and sales and may work in management positions related to engineering, manufacturing, and computer technology.

The UNH Manchester BS in Electrical Engineering Technology is accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET, www.abet.org.

The programs at UNH Manchester are designed to meet the needs of both full- and part-time students with a mix of classes scheduled during the day and in the evening.

For information about the electrical engineering technology program (EET), contact the B.S. engineering technology program coordinator, Sean Tavares (sean.tavares@unh.edu). For admissions information, contact the Office of Admissions (unhm.admissions@unh.edu) at (603) 641-4150.

Requirements

Degree Requirements

Minimum Credit Requirement: 128 credits

Minimum Residency Requirement: 32 credits must be taken at UNH

Minimum GPA: 2.0 required for conferral*

Core Curriculum Required: Discovery & Writing Program Requirements

Foreign Language Requirement: No

All Major, Option and Elective Requirements as indicated. *Major GPA requirements as indicated.

Major Requirements

Each course required in the major must be completed with a minimum grade of C-. Students must attain a minimum GPA in the major of 2.0.

Code	Title	Credits
CHEM 405	Chemical Principles for Engineers	4
COMP 424	Applied Computing 1: Foundations of Programming	4
COMP 560	Ethics and the Law in the Digital Age	4
ECN 411	Introduction to Macroeconomic Principles	4
ET 421	Digital Electronics I	4
ET 431	Circuit Analysis I	4
ET 432	Circuit Analysis II	4
ET 522	Digital Electronics II	4
ET 541	Electronic Devices	4
ET 542	Analog Electronics	4
ET 590	Embedded Microcontrollers	4
ET 625	Technical Communications	4

ET 671	Digital Systems	4
ET 674	Control Systems and Components	4
ET 677	Analog Systems	4
ET 680	Communications and Fields	4
ET 781	Introduction to Automation Engineering	4
ET 788	Introduction to Digital Signal Processing	4
ET 790	Microcomputer Technology	4
ET 791	Electrical Engineering Technology Project (Senior Capstone Project) 1	8
MATH 425	Calculus I	4
MATH 426	Calculus II	4
PHYS 407	General Physics I	4
Discovery Program Requi	rements, Writing Intensive (WI) Requirement, and electives	
Total Credits		96

Senior Capstone Project, two semesters; satisfies the Discovery Senior Capstone Experience requirement.

Degree Plan

This degree plan is a sample and does not reflect the impact of transfer credit or current course offerings. UNH Manchester undergraduate students will develop individual academic plans with their professional advisor during the first year at UNH.

Sample Course Sequence

First Year		
Fall		Credits
ENGL 401	First-Year Writing	4
MATH 418	Analysis and Applications of Functions	4
COMP 424	Applied Computing 1: Foundations of Programming	4
ET 431	Circuit Analysis I	4
	Credits	16
Spring		
PHYS 407	General Physics I	4
ET 421	Digital Electronics I	4
MATH 425	Calculus I	4
ET 432	Circuit Analysis II	4
	Credits	16
Second Year		
Fall		
CHEM 405	Chemical Principles for Engineers	4
MATH 426	Calculus II	4
ET 522	Digital Electronics II	4
ET 541	Electronic Devices	4
	Credits	16
Spring		
ET 542	Analog Electronics	4
ET 590	Embedded Microcontrollers	4
Discovery Course		4
Elective Course		4
	Credits	16
Third Year		
Fall		
ET 671	Digital Systems	4

	Total Credits	128
	Credits	16
ET 791	Electrical Engineering Technology Project	4
ET 788	Introduction to Digital Signal Processing	4
ET 781	Introduction to Automation Engineering	4
ECN 411	Introduction to Macroeconomic Principles	4
Spring	oreand	10
	Credits	16
Discovery Course		4
ET 791	Electrical Engineering Technology Project	4
ET 790	Microcomputer Technology	4
Fall COMP 560	Ethics and the Law in the Digital Age	4
Fourth Year		
	Credits	16
Discovery Course		4
Discovery Course		4
ET 677	Analog Systems	4
ET 625	Technical Communications	4
Spring	Credits	16
Discovery Course		4
ET 680	Communications and Fields	4
ET 674	Control Systems and Components	4

Student Learning Outcomes

Engineering Technology program, the student outcomes must include, but are not limited to, the following learned capabilities:

- An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadlydefined engineering problems appropriate to the discipline;
- An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline;
- An ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature;
- An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes; and
- An ability to function effectively as a member as well as a leader on technical teams.