# Electronic Engineering Technology

**Degree Type**
Associate of Science

## This program is not currently accepting new students.

NHTI's Electronic Engineering Technology degree program offers a combination of engineering theory and hands-on skills using state-of-the-art equipment. Class and lab size are kept small, giving you ample opportunity to interact with instructors. The majority of program courses are taught by full-time faculty with advanced degrees and significant, relevant industry experience. You can continue your education by transferring to at a 4-year engineering program and with dual admittance to UNH's EET bachelor's degree program.

**Do you have questions?** Contact Dennis Tappin at dtappin@ccsnh.edu.

## Career Information

Students who complete this program can enter into the following professions (not an inclusive list):

- Electronic circuit designer
- IoT developer
- Microprocessor/embedded system developer
- Computer hardware designer
- FPGA/PLD developer
- System verification engineer
- Electrical/electronics engineering technician
- Electro-mechanical technicians

## Curriculum

### First Year

Fall Semester

| Item # | Title | Lecture Hours | Lab Hours | Credits |
|---|---|---|---|---|
| CPET107C | Introduction to Programming with C++ | 2 | 3 | 3 |
| ELET101C | Circuit Analysis I | 3 | 3 | 4 |
| ELET115C | Digital Fundamentals | 2 | 3 | 3 |
| ENGL101C | English Composition | 4 | 0 | 4 |
| MATH124C | College Algebra | 4 | 0 | 4 |
| | **Subtotal Credits** | **15** | **9** | **18** |

Spring Semester

| Item # | Title | Lecture Hours | Lab Hours | Credits |
|---|---|---|---|---|
| ELET102C | Circuit Analysis II | 3 | 3 | 4 |
| ELET110C | Electronics I | 3 | 3 | 4 |
| | ENGL 120C/COMM 120C or COMM 125C/ ENGL 125C | 3 | 0 | 3 |
| MATH140C | Precalculus | 4 | 0 | 4 |
| | PHYS 133C or PHYS 231C | 3 | 2 | 4 |
| | **Subtotal Credits** | **16** | **8-9** | **19** |

**Second Year**

Fall Semester

| Item # | Title | Lecture Hours | Lab Hours | Credits |
|---|---|---|---|---|
| ELET144C | Embedded Microsystems | 3 | 3 | 4 |
| ELET210C | Electronics II | 3 | 3 | 4 |
| ELET305C | Design Project Preparation | 1 | 5 | 3 |
| MATH205C | Calculus I | 4 | 0 | 4 |
| | PHYS 135C or PHYS 232C | 3 | 2 | 4 |
| | **Subtotal Credits** | **14** | **13-14** | **19** |

Spring Semester

| Item # | Title | Lecture Hours | Lab Hours | Credits |
|---|---|---|---|---|
| ELET215C | Advanced Digital Electronics | 3 | 3 | 4 |
| | ELET 251C or MATH 206C | 3 | 3 | 4 |
| ELET306C | Senior Design Project | 2 | 5 | 4 |
| | Humanities/Fine Arts/Language elective | 3 | 0 | 3-4 |
| | Social Science elective | 3 | 0 | 3 |
| | **Subtotal Credits** | **14-16** | **11** | **18-19** |
| | **Total Credits** | | | **74-75** |

**Additional Information**

Accreditation

This program is accredited by the Engineering Technology Accreditation Commission of ABET, www.abet.org.

Capstone Project

Students complete a capstone project over two consecutive semesters. This hands-on experience strengthens their ability to apply engineering theory to the development of practical solutions to real-world engineering problems. A fully equipped project lab and mentoring by faculty with extensive industry experience/expertise provide a unique learning environment. Prospective employers see this as a distinguishing feature of NHTI's EET program.

Here are the Capstone projects from NHTI's 2021 students:

- Michael Flick – click here to see the presentation
- Jai-Lynn Goss – click here to see the presentation
- Christian Hale – click here to see the presentation

- Nicole Horn – click here to see the presentation
- Yuly Monsalve-Cabeza – click here to see the presentation
- Noah Pelchat – click here to see the presentation
- Joshua Welton – click here to see the presentation

Curriculum Notes

- Students planning to pursue 4-year degrees should consider taking Calculus-based Physics and discuss this option with their academic advisors. To meet the requirements, students may need to alter their course sequence; contact your academic advisor for assistance.
- Students are required to complete a minimum of 1 math course from Math List A. If ELET 251C is substituted for MATH 206C, students are required to complete a minimum of 1 math course from Math List B:
  - Math List A: MATH 206C, MATH 208C, MATH 210C
  - Math List B: MATH 205C, MATH 208C, MATH 210C
- It is recommended students who plan to pursue a bachelor's degree in engineering take both MATH 206C and MATH 210C.
- To fulfill the program degree requirements and to meet the prerequisite requirement of subsequent major field courses, students are required to earn a grade of C- or higher in each major field course and in each math and physics course.
- For students with a need for a reduced course load, a 3-year version of this program is available. Contact the department chair for details.

Specific Admissions Requirements

Applicants require at least three years of college preparatory math (Algebra I, Algebra II, and Geometry) with minimum grades of C or higher in at least two of the three college preparatory math courses. It is also recommended applicants have satisfactorily completed high school courses in Chemistry and Physics.