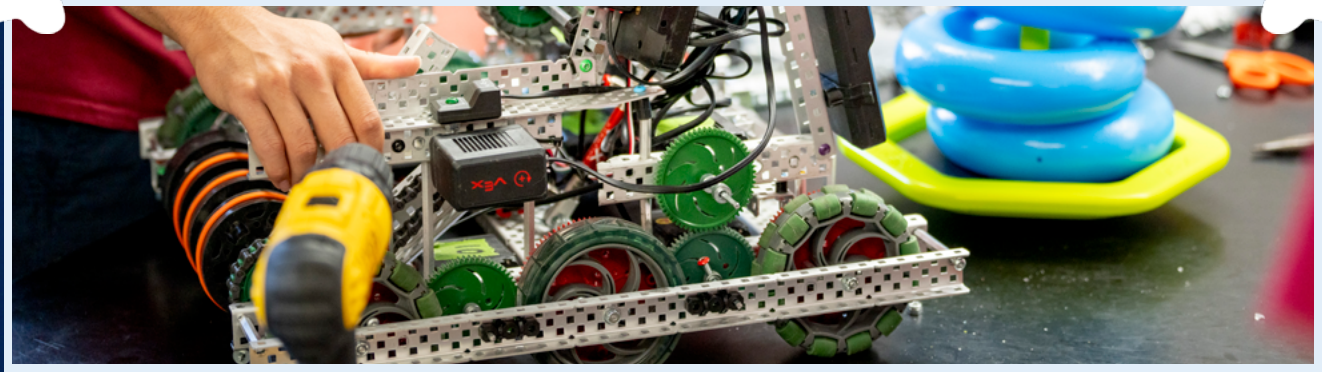
THE UNIVERSITY OF MAINE
Early College



ENGINEERING AND COMPUTER SCIENCE SELF-GUIDED PATHWAY

This is a **self-guided** pathway. There are no specific requirements or parameters. This is a guide with recommended courses based on the content area. Students are encouraged to explore the options below based on their specific goals and interests with the help of their school counselor or homeschool educator.

Recommended Core Courses

These introductory courses are excellent choices for students looking to explore this area more deeply before stepping into specialized courses in the electives section below. We recommend choosing at least 2 courses within this section.

- ☐ INT 193: Introduction to Career Exploration and Development (3 Credits)
- ☐ CIE 210: Sustainability in Engineering (3 Credits)
- ☐ *Math course - MAT 111, 122, or 126 (4 Credits)

**Math course selection depends on the online placement exam score earned prior to being enrolled.*

Recommended Elective Courses

These courses, while still mostly introductory, focus on different skill or knowledge areas within the Engineering and Computer Science realm, and they allow for more concentrated study in a particular area.

Meets Requirement in All Engineering/Computer Science Programs

- ☐ PHY 121: Physics for Engineers and Physical Scientists I (4 Credits)
- ☐ INV 121: Fundamentals of Innovation (3 Credits)
- ☐ ENG 205: An Introduction to Creative Writing (3 Credits)
- ☐ NAS 101: Introduction to Native American Studies (3 Credits)

Meets Requirement in Some Engineering/Computer Science Programs

- ☐ CMJ 103: Public Speaking (3 Credits) - Civil, Electrical
- ☐ MEE 150: Applied Mechanics (3 Credits) - Biomedical, Civil, Mechanical

Note: If you are interested in working with an Early College Advisor to create an individualized Early College Pathway rather than following a self-guided Pathway, please go to umaine.edu/earlycollege/pathways to learn more about our **Career Explorations Pathway**.

This pathway spans a broad range of subjects, allowing you to sample courses across different fields or focus on a specific area of interest through Maine's flagship university and only R1 designated research institution. It is designed for broad exploration rather than being tied to a specific major, though each recommended course connects directly to at least one of the majors or minors listed below:

Engineering:
- Biomedical
- Chemical
- Civil
- Computer
- Electrical
- Engineering Physics
- Mechanical

Engineering Technology:
- Construction
- Electrical
- Mechanical
- Surveying

Computer Science:
- Computer Science
- Human-Centered Technology Design
- New Media

Completion of these majors allow students to pursue graduate studies or careers in the following fields:

- Aerospace Engineering
- Architectural & Engineering Management
- Chemical & Pharmaceutical Engineering
- Civil Engineering
- Computer & Information Systems Management
- Construction Management
- Electrical & Electronics Engineering
- Industrial Engineering
- Mechanical Engineering
- Robotics and Automotive Engineering
- Software Developing & Programming

SCAN QR CODE TO LEARN MORE!

APPLY NOW

umaine.edu/earlycollege/pathways

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207.581.8024

PURSUE BLUE HORIZONS

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