



## Early College Engineering and Computer Science Pathway

Get a head start on your UMaine degree! Free or reduced  
tuition for high school students

The Early College Engineering and Computer Science Online Degree Pathway may lead to programs in a variety of majors including the following:

- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Computer Science
- Construction Engineering Technology
- Electrical Engineering Technology
- Engineering Physics
- Human-Centered Technology Design
- Mechanical Engineering Technology
- New Media
- Surveying Engineering Technology

**Please note:** These pathways are designed to offer general exposure and opportunities to explore various content areas. If there is a specific major you are interested in, you are encouraged to discuss this with your pathway advisor to ensure the classes you are taking will fit into your desired degree program requirements.



Scan QR Code  
For Additional Info!

# Engineering and Computer Science Online Degree Pathway Course Checklist (15-16 Credit Hours)

## Core Course Degree Pathway Requirements (5 Credit Hours)

- INT 193: Introduction to Career Exploration and Development (2 Credits)
- ENG 101: College Composition (3 Credits)

\*As this pathway is advising intensive students must complete these before moving forward in the pathway.

## Choose 1 Gen Ed Course from each section of recommended electives (10-11 Credit Hours)

### 1. Math

- MAT 122: Pre-Calculus (4 Credits)
- MAT 126: Calculus I (4 Credits)
- MAT 103/104: Elementary Algebraic Models in Our World (3-4 Credits)

### 2. \*Science (Please see note below regarding online availability of courses)

- CHY 121/123: Chemistry I (4 Credits)
- BIO 117: This is Life! (4 Credits)
- PHY 121: Physics for Engineers and Physical Scientists I (4 Credits)

\*CHY 121/123: In person on our Orono Campus; PHY 121: on our Orono campus or online during select semesters through Machias campus; BIO 117 Online through Machias campus.

### 3. Electives

- CMJ 103: Public Speaking (3 Credits)
- ECO 190: World Food Supply, Population, and Environment (3 Credits)
- ENG 205: An Introduction to Creative Writing (3 Credits)
- PHI 100: Contemporary Moral Problems (3 Credits)
- PHI 102: Introduction to Philosophy (3 Credits)
- PSY 100: General Psychology (3 Credits)
- WGS 101: Introduction to Women's, Gender, and Sexuality Studies (3 Credits)

Students are encouraged to contact the Early College Counselor for potential course substitutions.

## 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 Development & Programming



For more information contact  
207.581.8024 or [um.earlycollege@maine.edu](mailto:um.earlycollege@maine.edu)  
Apply now at [umaine.edu/earlycollege](http://umaine.edu/earlycollege)



In complying with the letter and spirit of applicable laws and pursuing its own goals of diversity, the University of Maine System does not discriminate on the grounds of race, color, religion, sex, sexual orientation, transgender status, gender, gender identity or expression, ethnicity, national origin, citizenship status, familial status, ancestry, age, disability physical or mental, genetic information, or veterans or military status in employment, education, and all other programs and activities. The University provides reasonable accommodations to qualified individuals with disabilities upon request. The following person has been designated to handle inquiries regarding non-discrimination policies: Director of Equal Opportunity, 5713 Chadbourne Hall, Room 412,

University of Maine, Orono, ME 04469-5713, 207.581.1226, TTY 711 (Maine Relay System).