

PRE-ENGINEERING

Associate in Science



The Associate in Science in Pre-Engineering program will provide students with a strong foundational education in mathematics, science, and engineering principles, enabling a smooth transition into a four-year bachelor's degree program in various engineering disciplines.

Students who complete the program will be prepared to:

- Analyze engineering problems and develop viable solutions using appropriate methods.
- Apply principles of physics and mathematics to solve engineering challenges.
- Explain fundamental engineering concepts across multiple disciplines.
- Design studies, collect data, and analyze results to draw valid conclusions.
- Use engineering software tools for design and simulation.

- Communicate engineering concepts and findings effectively through written and oral presentations.

Graduates will be equipped with the critical knowledge needed to pursue advanced studies in areas such as:

- **Civil Engineering**
- **Chemical Engineering**
- **Electrical Engineering**
- **Mechanical Engineering**
- **Computer Engineering**

Degree Requirements

| Semester I | | Credit Hours |
|---------------------------------------|--------------------------------------|---------------------|
| COM 100 | Public Speaking | 3 |
| ENG ____ | Select one of the following: | 3 (4) |
| | ENG 101 College Writing | |
| | ENG 105 College Writing Seminar | |
| MAT 163 | Calculus I | 4 |
| _____ | Advising Pathway | 3 |
| _____ | Elective: Social Science | 3 |
| | | |
| Semester II | | |
| ENG 201 | Technical Writing | 3 |
| MAT 164 | Calculus II | 4 |
| CHY 121 | Chemistry I Lecture | 3 |
| CHY 122 | Chemistry I Lab | 1 |
| MAT ____ | Math Elective | 3 |
| _____ | Diversity/Ethical Reasoning Elective | 3 |
| | | |
| Semester III | | |
| PHY 251 | Physics I w Calculus Lecture | 3 |
| PHY 253 | Physics I w Calculus Lab | 1 |
| MAT 265 | Calculus III | 4 |
| _____ | Advising Pathway | 3-4 |
| _____ | Creative Arts/Humanities Elective | 3 |
| _____ | Advising Pathway | 3-4 |
| | | |
| Semester IV | | |
| PHY 252 | Physics II w Calculus Lecture | 3 |
| PHY 254 | Physics II w Calculus Lab | 1 |
| MAT ____ | Math Elective | 3 |
| _____ | Advising Pathway | 3-4 |
| _____ | Advising Pathway | 3-4 |
| | | |
| Total Credit Hour Requirements | | 63-66 |

*Placement determined by assessment test scores and/or prior college course-work



Office of Admissions

1250 Turner Street • Auburn, ME 04210
(207) 755-5273 • cmccadmissions@maineccc.edu

www.cmcc.edu

Find CMCC on social media at CMCCMaine

