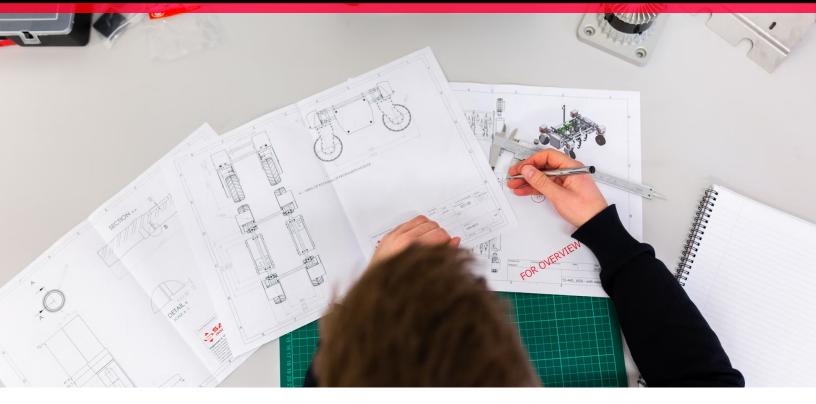


PRE-ENGINEERING

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

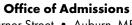
Degree Requirements

Semester I		Credit Hour
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	Market State of the State of th	
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

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^{*}Placement determined by assessment test scores and/or prior college coursework





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

www.cmcc.edu

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