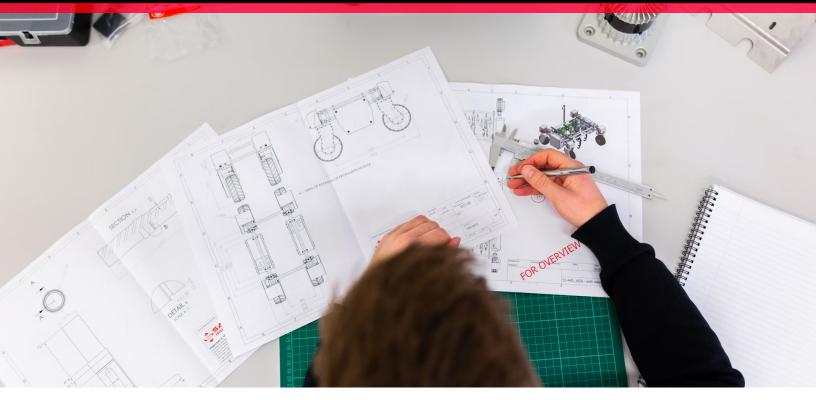


PRE-ENGINEERING

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 | |
| CHY 121 | Chemistry I Lecture | 3 |
| CHY 122 | Chemistry I Lab | 1 |
| | Advising Pathway | 3-4 |
| | Elective: Social Science | 3 |
| | | |
| Semester II | | |
| ENG 201 | Technical Writing | 3 |
| MAT 163* | Calculus I | 4 |
| | Advising Pathway Course | 3-4 |
| | Advising Pathway Course | 3-4 |
| | Elective: Diversity | 3 |
| | | |
| Semester III | | |
| PHY 251 | Physics I w Calculus Lecture | 3 |
| PHY 252 | Physics I w Calculus Lab | 1 |
| MAT 164* | Calculus II | 4 |
| MAT* | Select one of the following: | 3-4 |
| | MAT 236 Statistics for STEM | |
| | MAT 291 Linear Algebra | |
| | Elective: Creative Arts/Humanities | 3 |
| | Advising Pathway Course | 3-4 |
| | | |
| Semester IV | | |
| PHY 253 | Physics II w Calculus Lecture Physics | 3 |
| PHY 254 | II w Calculus Lab | |
| MAT 265* | Calculus III | 4 |
| MAT | Select one of the following: | 3-4 |
| | MAT 236 Statistics for STEM | |
| | MAT 291 Linear Algebra | |
| | MAT 293 Differential Equations | |
| | Advising Pathway | 3-4 |
| Total Credit Hour Requirements | | 63-66 |

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





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