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**First Year Engineering Program**

Marian University Dual Degree Engineering Program students take the following courses in their first year of study. Every course is required. A student with some form of outside credit for one or more of these will take general education courses assigned by the engineering advisor, selected to maximize the common experience and offer the greatest opportunity for mutual support within the cohort.

 **Fall Spring**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Number** | **Title** | **Cr. Hrs.** | **Number** | **Title** | **Cr. Hrs.** |
| MAT 230 | Calculus I | 4 | MAT 231 | Calculus II | 4 |
| CHE 151 | General Chemistry I | 4 | CHE 152 | General Chemistry II | 4 |
| ENG 101 | English Composition | 3 | PHY 201 | Physics I - Mechanics | 4 |
| FYS 101 | First Year Seminar | 3 | COM 101 | Public Speaking | 3 |
| *ENGR 196* | *Engineering Problem Solving* | 3 | CSS XXX | *Intro to Computing (C and MATLAB)* | 3 |
| **Total** |  | **17** |  |  | **18** |

 During the second year most students will continue with a substantially common course of study including Calculus III, Physics II, Linear Algebra, Logic and Sets, and Differential Equations. They also begin to branch out into their individual majors courses as mechanical, electrical, or biomedical engineers.

Prospective students should understand that the program as built does not have any notable flexibility. Specifically, as constructed, it does not have:

* Room for a minor, or even free electives.
* Room for athletes to take a lighter load during their season.

Students who bring in credit toward the program or attend summer classes do have room for lighter loads, free electives and possibly even a minor. In general, we encourage a student to delay lightening the load in order to preserve their scheduling flexibility for the years when they are taking classes on both campuses.