



Physical Sciences

Total Credits: 52+

Find the Website [here](#)

Department Chair: Dr. Emil Prodan

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REQUIRED COURSES (42 Credits)

| Course # | Course Name | Credits |
|-------------------|--------------------------------|---------|
| CHEM 1045R | General Chemistry I, Lecture | 3 |
| COMP 1300C | Intro to Computer Science | 4 |
| ECON 1010** | Principles of Economics | 3 |
| MATH 1412 | Calculus I | 4 |
| MATH 1413* | Calculus II | 4 |
| MATH 1510 | Multivariable Calculus | 4 |
| MATH 2105* | Linear Algebra | 3 |
| MATH 2601 | Differential Equations | 3 |
| PHYS 1051C, 1052C | General Physics, Lecture & Lab | 8 |
| PHYS 2051 | General Physics III | 3 |
| PHYS 2052 | General Physics IV | 3 |

* MATH 1413 and MATH 2105 may count towards the General Ed. Elective category

** ECON 1010 may count towards the General Ed. Foundations category

ADDITIONAL REQUIREMENTS

Three (3) additional courses related to the particular field(s) of engineering in which the student is interested.

At least one course should be a senior level course. Students must meet with Dr. Prodan to design their concentration. Some examples are:

- 1. Concentration in Chemistry:** CHEM 1046R, CHEM 1047L, CHEM 1213R, CHEM 1215L, CHEM elective
- 2. Concentration in Electromagnetism:** PHYS 1321, PHYS1322, PHYS elective
- 3. Concentration in Mechanics:** PHYS 1221, PHYS 1222, PHYS elective
- 4. Concentration in Computer Science:** COMP 1320C, 2 advanced COMP electives
- 5. Concentration in Biology:** BIOL 1011C, BIOL 1012C, advanced BIOL elective