

ENGINEERING MAJOR, BACHELOR OF SCIENCE (4- YEAR PROGRAM)

Requirements for a Bachelor of Science in Engineering include:

| Code | Title | Credits |
|---|--|-----------|
| Required Math and Science Supporting Courses | | |
| CHEM 231 | General Chemistry I | 4 |
| MATH 235 | Calculus I | 4 |
| MATH 236 | Calculus II | 4 |
| MATH 237 | Calculus III | 4 |
| MATH 333 | Differential Equations | 4 |
| PHYS 231 | Introductory Physics I | 4 |
| PHYS 232 | Introductory Physics II | 4 |
| PHYS 334 | Computer Modeling of Physical Systems | 2 |
| Required Core Engineering Courses | | |
| ENGR 101 | Introduction to the Engineering Profession | 1 |
| ENGR 201 | Engineering Mechanics 1 - Statics | 4 |
| ENGR 202 | Engineering Mechanics 11 – Dynamics | 4 |
| ENGR 204 | Innovative Design in Engineering | 4 |
| ENGR 302 | Engineering Systems Analysis | 2 |
| ENGR 394 | Engineering Ethics Capstone | 2 |
| ENGR 451 | Senior Design I | 4 |
| ENGR 452 | Senior Design II | 2 |
| Concentration Courses | | 22 |
| Total Credits | | 75 |

The Concentration in Mechanical Engineering is a 22-credit concentration that can be taken as part of the Bachelor of Science in Engineering.

| Code | Title | Credits |
|---|--|-----------|
| Mechanical Engineering Concentration Courses | | |
| ENGR 131 | Engineering Graphics and Computer Aided Design | 4 |
| ENGR 223 | Strength of Materials | 4 |
| ENGR 225 | Materials Science | 4 |
| ENGR 346 | Fluid Mechanics | 4 |
| ENGR 348 | Thermodynamics & Heat Transfer | 4 |
| Mechanical Engineering Concentration Electives (choose 1 course) | | 2 |
| ENGR 323 | Design of Machine Elements | |
| ENGR 325 | Mechanics of Solids | |
| Total Credits | | 22 |