## 20 credit hours from the Common Engineering Core:

- CPSC 2320: C++ Programming, 1 credit hour ${ }^{1}$
- ENGR 2001: Introduction to Engineering, 1 credit hour
- ENGR 2002: Introduction to Mechanical Laboratory, 1 credit hour
- ENGR 2003: Introduction to Electrical and Computer Laboratory, 1 credit hour
- ENGR 2010: Statics, 2 credit hours
- ENGR 2030: Circuit Analysis, 3 credit hours
- ENGR 2090: Systems Engineering, 2 credit hours
- ENGR 2110: Dynamics, 2 credit hours
- ENGR 2310: Computational Problem Solving, 3 credit hours
- ENGR 4950: Senior Design I, 2 credit hours ${ }^{2}$
- ENGR 4960: Senior Design II, 2 credit hours ${ }^{3}$

31 credit hours of Mathematics and Basic Sciences:

- CHEM 2110: General Chemistry I, 4 credit hours ${ }^{4}$
- MATH 2010: Calculus I, 4 credit hours ${ }^{5}$
- MATH 2020: Calculus II, 4 credit hours
- MATH 3010: Linear Algebra with Differential Equations, 4 credit hours
- MATH 3020: Calculus III, 4 credit hours
- MATH 3100: Differential Equations, 3 credit hours
- PHYS 2240: General Physics I, 4 credit hours
- PHYS 2250: General Physics, II, 4 credit hours

32 credit hours of major specific requirements:

- ENGR 2070: Thermodynamics, 3 credit hours
- ENGR 3030: Signals and Controls, 3 credit hours
- ENGR 3110: Kinematics and Robotics, 4 credit hours
- ENGR 3160: Vibrations, 2 credit hours
- ENGR 3180: Materials and Processes, 3 credit hours
- ENGR 3190: Thermodynamics: Cycle Analysis, 2 credit hours
- ENGR 3510: Solid Mechanics, 4 credit hours
- ENGR 4110: Machine Design, 3 credit hours
- ENGR 4130: Fluid Mechanics, 4 credit hours
- ENGR 4160: Heat and Mass Transfer, 4 credit hours

[^0]Common Engineering Core Suggested Course Sequence

| SEMESTER 1 | 4 Hours | MATH 2020 | 4 Hours |
| :--- | :--- | :--- | :--- |
| MATH 2010 | 4 Hours | PHYS 2240 | 4 Hours |
| CHEM 2110 | 3 Hours | ENGR 2310 | 3 Hours |
| ENGR 2001, 2002, 2003 | 4-3 Hours | ENGL 1120 | 3 Hours |
| ENGL 1100/ENGL 1110 | 1 Hour | LART 1100 | 2 Hours |
| LART 1050 |  |  |  |


| SEMESTER 3 |  | 4 Hours | SEMESTER 4 |
| :--- | :--- | :--- | :--- |
| MATH 3010 | 4 Hours | MATH 3020 | 4 Hours |
| PHYS 2250 | 1 Hours | ENGR 2030 | 3 Hours |
| CPSC 2320 | 2 Hours | ENGR 2110 | 3 Hours |
| ENGR 2010 | 2 Hour | ENGR Skills Lab | 2 Hours |
| ENGR 2090 | 0-1 Hour | ECON 20106 | 0 -1 Hour |
| ENGR Skills Lab | 3 Hours |  | 3 Hours |
| COMM 1000 |  |  |  |

Mechanical Engineering Major Suggested Course Sequence

| SEMESTER 5 | 3 Hours | ENGR 3110 | 4 Hours |
| :--- | :--- | :--- | :--- |
| ENGR 2070 | 3 Hours | ENGR 3190 | 2 Hours |
| ENGR 3030 | 2 Hours | ENGR 3510 | 4 Hours |
| ENGR 3160 | 3 Hours | ENGR 4130 | 4 Hours |
| ENGR 3180 | 0-1 Hour | ENGR Skills Lab | 0 -1 Hour |
| ENGR Skills Lab | 3 Hours | Personal Wellness | 2 Hours |
| BIBL 2000 |  |  |  |


| SEMESTER 7 |  | 3 Hours | ENGR 4960 |
| :--- | :--- | :--- | :--- |
| ENGR 4110 | 4 Hours | ENGR Skills Lab | 2 Hours |
| ENGR 4160 | 2 Hours | Foreign Language | 0-1 Hour |
| ENGR 4950 | 0-1 Hour | PHIL 3250 | 4 Hours |
| ENGR Skills Lab | 3 Hours | ENGR 2080 | 3 Hours |
| POSC 2100 | 3 Hours |  | 3 Hours |
| COMM 255010 |  |  |  |

Students in Mechanical Engineering will learn the principles and skills necessary to understand how heat and mechanical power can be used in the design and operation of machines and other tools. Graduates of the Mechanical Engineering program will have a diverse background, with skills that can be ready for employment in industries such as automotive, aerospace, manufacturing, and consumer goods.

[^1]
[^0]:    ${ }^{1}$ May also be fulfilled with CPSC 2500.
    ${ }^{2}$ This is a Writing Intensive course in the Liberal Arts Program.
    ${ }^{3}$ This is both a Writing and Speaking Intensive course in the Liberal Arts Program.
    ${ }^{4}$ This course fulfills the Scientific Ways of Knowing requirement in the Liberal Arts Program.
    ${ }^{5}$ This course fulfills the Quantitative Ways of Knowing requirement in the Liberal Arts Program.

[^1]:    ${ }^{6}$ This course fulfills the Social/Behavioral Ways of Knowing requirement in the Liberal Arts Program.
    ${ }^{7}$ This course fulfills the Christian Ways of Knowing requirement in the Liberal Arts Program.
    ${ }^{8}$ This course fulfills the Civic Ways of Knowing requirement in the Liberal Arts Program.
    ${ }^{9}$ This course fulfills the Global/Intercultural Ways of Knowing requirement in the Liberal Arts Program.
    ${ }^{10}$ This course fulfills the Aesthetic Ways of Knowing requirement in the Liberal Arts Program.

