## 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

34 credit hours of major specific requirements:

- PHYS 3130 Modern Physics, 2 credit hours
- ENGR 2070 Thermodynamics, 3 credit hours
- ENGR 3030: Signals and Controls, 3 credit hours
- ENGR 3240/PHYS 4210 Electromagnetic Fields, 3 credit hours
- PHYS 4220 Computational Mechanics, 3 credit hours
- PHYS 4130 Quantum Theory, 4 credit hours
- PHYS 4410 Statistical Mechanics, 3 credit hours
- A minimum of 13 hours of any CPSC, ENGR, or PHYS courses at the 3000 level or above.

[^0]Questions? Please contact either the Department of Biology or the Department of Physical Sciences \& Engineering.

## ANDERSON UNIVERSITY

| Common Engineering Core Suggested Course Sequence |
| :--- |
| SEMESTER 1 SEMESTER 2 2018-2019  <br> MATH 2010 4 Hours MATH 2020 PHYS 2240 |
| CHEM 2110 |


| SEMESTER 3 | 4 Hours | MATH 3020 |  |
| :--- | :--- | :--- | :--- |
| MATH 3010 | 4 Hours | MATH 3100 | 4 Hours |
| PHYS 2250 | 2 Hours | ENGR 2030 | 3 Hours |
| ENGR 2010 | 2 Hours | ENGR 2110 | 3 Hours |
| ENGR 2090 | 1 Hour | ENGR Skills Lab | 2 Hours |
| CPSC 2320 | 0-1 Hour | Foreign Language | $0-1$ Hour |
| ENGR Skills Lab | 3 Hours |  | 4 Hours |
| COMM 1000 |  |  |  |

Engineering Physics Major Suggested Course Sequence

| SEMESTER 5 |  | 3 Hours | PHYS 3130 |
| :--- | :--- | :--- | :--- |
| ENGR 3240 | 3 Hours | ENGR Electives | 2 Hours |
| ENGR 2070 | 3 Hours | ENGR Skills Lab | $3-6$ Hours |
| ENGR 3030 | $2-3$ Hours | PHIL $3250^{6}$ | $0-1$ Hour |
| ENGR Elective | $0-1$ Hour | COMM $2550^{7}$ | 3 Hours |
| ENGR Skills Lab | 3 Hours |  | 3 Hours |
| BIBL 2000 |  |  |  |


| SEMESTER 7 | 3 Hours | PHYS 4130 |  |
| :--- | :--- | :--- | :--- |
| PHYS 4220 | $3-6$ Hours | PHYS 4410 | 4 Hours |
| ENGR Elective | 2 Hours | ENGR 4960 | 3 Hours |
| ENGR 4950 | $0-1$ Hour | ENGR Skills Lab | 2 Hours |
| ENGR Skills Lab | 3 Hours | Personal Wellness | $0-1$ Hour |
| POSC 2100 | 3 Hours | ENGR 208010 | 2 Hours |
| ECON 2010 |  | 3 Hours |  |

[^1]Students studying Engineering Physics can usually fall into two categories, those wishing to pursue a graduate degree in physics or engineering, or those with a passion for physics and research and want a strong background in hardware and design.
These students will often go on to graduate school, but are also exceptionally well prepared for careers in industry and national laboratories.


[^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 Christian Ways of Knowing requirement in the Liberal Arts Program.
    ${ }^{7}$ This course fulfills the Aesthetic 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 Social/Behavioral Ways of Knowing requirement in the Liberal Arts Program.
    ${ }^{10}$ This course fulfills the Global/Intercultural Ways of Knowing requirement in the Liberal Arts Program.
    Questions? Please contact either the Department of Biology or the Department of Physical Sciences \& Engineering.

