

## Sample Course Schedule

### Freshman Year

First Semester	Hours
MATH 180—Calculus I	5
CHEM 112—General College Chemistry I	5
ENGL 160—Academic Writing I: Writing for Academic and Public Contexts	3
General Education Core course (1 of 5)	3
ENGR 100—Orientation <sup>a</sup>	0 <sup>a</sup>
<b>Total Hours</b>	<b>16</b>

<sup>a</sup> ENGR 100 is a one-semester-hour course, but the hour does not count toward the total hours required for graduation.

Second Semester	Hours
MATH 181—Calculus II	5
PHYS 141—General Physics I (Mechanics)	4
ENGL 161—Academic Writing II: Writing for Inquiry and Research	3
ME 250—Intro to Engineering Design and Graphics	3
General Education Core course (2 of 5)	3
<b>Total Hours</b>	<b>18</b>

### Sophomore Year

First Semester	Hours
MATH 210—Calculus III	3
PHYS 142—General Physics II (Electricity and Magnetism)	4
CS 109—C/C++ Programming with MATLAB	3
CME 201—Statics	3
IE 201—Financial Engineering	3
<b>Total Hours</b>	<b>16</b>

Second Semester	Hours
MATH 220—Introduction to Differential Equations	3
CME 203—Strength of Materials	3
ME 210—Engineering Dynamics	3
CME 211—Fluid Mechanics and Hydraulics	3
EAES 101—Global Environmental Change	
<b>OR</b>	
EAES 111—Earth, Energy and the Environment	4
<b>Total Hours</b>	<b>16</b>

### Junior Year

First Semester	Hours
CME 205—Structural Analysis I	3
CME 216—Environmental Engineering	3
CME 302—Transportation Engineering	3
CME 315—Soil Mechanics and Laboratory	4
General Education Core course (3 of 5)	3
<b>Total Hours</b>	<b>16</b>

<b>Second Semester</b>	<b>Hours</b>
CME 310—Design of Reinforced Concrete Structures	3
CME 311—Water Resources Engineering	3
ME 205—Introduction to Thermodynamics	
<b>OR</b>	
ECE 210—Electrical Circuit Analysis	3
CME 260—Properties of Materials	3
CME 300—Composition and Properties of Concrete	2
General Education Core course (4 of 5)	3
<b>Total Hours</b>	<b>17</b>

## **Senior Year**

<b>First Semester</b>	<b>Hours</b>
CME 301—Behavior and Design of Metal Structures	3
CME 396—Senior Design I	3
CME 434—Finite Element Analysis I	3
CME 4XX—Technical Elective I	3
CME 4XX—Technical Elective II	3
<b>Total Hours</b>	<b>15</b>

<b>Second Semester</b>	<b>Hours</b>
CME 397—Senior Design II	2
CME 402—Geometric Design of Highway Facilities	3
CME 4XX—Technical Elective III	3
CME 405—Foundation Analysis and Design	3
General Education Core course (5 of 5)	3
<b>Total Hours</b>	<b>14</b>