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[a]	0[a]
Total Hours	**16**

[a] *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
Total Hours	**18**

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
Total Hours	**16**

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	
OR	
EAES 111— Earth, Energy and the Environment	4
Total Hours	**16**

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
Total Hours	**16**

Second Semester	**Hours**
CME 310—Design of Reinforced Concrete Structures	3
CME 311—Water Resources Engineering	3
ME 205—Introduction to Thermodynamics	
OR	
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
Total Hours	**17**

Senior Year

First Semester	**Hours**
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
Total Hours	**15**

Second Semester	**Hours**
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
Total Hours	**14**