

# B.S. Major in Engineering

This major will be discontinued at the conclusion of a teach-out plan. Please contact the academic department for more information.

The B.S. major in Engineering requires 83 semester hours:

Code	Title	Semester Hours
<b>38 semester hours:</b>		
CHEM 131	Fundamentals of Chemistry I	4.0
CHEM 132	Fundamentals of Chemistry II	4.0
MATH 181	Calculus I	4.0
MATH 182	Calculus II	4.0
MATH 283	Multivariable Calculus	4.0
MATH 284	Differential Equations	3.0
PHYS 201	Phys for Scientists/Engrs I	4.0
PHYS 202	Phys for Scientists/Engrs II	4.0
PHYS 203	Phys for Scientists/Engrs III	4.0
WRIT 151	Fundamentals of Acad Writing	3.0
<b>At least 45 semester hours from the following:</b>		
CSCI 171	Introduction to Programming	4.0
ENGR 101	Graphical Communications <sup>1</sup>	3.0
ENGR 160	Intro Engineering Profession	3.0
ENGR 201	Engineering Mechanics:Statics	3.0
ENGR 202	Engineering Mechanics:Dynamics <sup>1</sup>	3.0
ENGR 203	Mechanics of Materials	3.0
ENGR 206	Elect. Engr. Circuit Analysis	4.0
ENGR 301	Materials Science <sup>2</sup>	3.0
ENGR 306	Fluid Mechanics <sup>1</sup>	3.0
ENGR 340	Prof Integrity in Engineering	3.0
ENGR 499	Senior Project Design plus successful transfer or completion of Principia-advisor-approved engineering courses in one of the specialties listed in the narrative description of engineering <sup>3</sup>	13.0
<b>Total Semester Hours</b>		<b>83.0</b>

<sup>1</sup> Students earning a dual degree in Electrical or Chemical Engineering may substitute another advisor approved engineering course for this course.

<sup>2</sup> Students earning a dual degree in Civil or Electrical Engineering may substitute another advisor approved engineering course for this course.

<sup>3</sup> These courses will include at least two (2) 300 and above level courses.

Note: A minimum grade of C- or higher is required for each science and engineering course in the major. In addition, a cumulative average of 2.0 or higher in all required courses is necessary to complete the major. See overview page.