



**CARROLL COLLEGE**  
**3-2 Engineering for Biomedical Engineering**  
**3 -Year Plan for Admission in 2017-2018**

First year students should check with an engineering advisor before beginning classes. Requirements for various engineering majors can impact selection of courses for the first semester.

<b>Freshman</b>			
<u>Fall</u>		<u>Spring</u>	
ENGR 105 Intro to Engineering	1	ENGR 155 Robotics	3
BI 171 Biological Principles I – <i>CORE</i>	4	BI 172 Biological Principles II	4
CH 101 General Chemistry I	4	CH 102 General Chemistry II	4
MA 141 Intro to Math Modeling - <i>CORE</i>	4	MA 131 Single Variable Calculus	4
LAS 101 Alpha Seminar - <i>CORE</i>	<u>3</u>	TH 101 Theology - <i>CORE</i>	<u>3</u>
	<b>16(1)</b>		<b>18(3)</b>
<b>Sophomore</b>			
CH 301 Organic Chemistry I	4	ENGR 302 Engr Mechanics I: Statics	3
MA 233 Multivariable Calculus	4	MA 334 Diff Eqs & Linear Algebra II	4
PHYS 205 Engineering Physics I	4	PHYS 206 Engineering Physics II	4
ENWR 102 College Composition - <i>CORE</i>	4	EC 203 Project Management Econ - <i>CORE</i>	3
CO 101 Communications - <i>CORE</i>	<u>3</u>	<i>CORE (Social Science)</i>	<u>3</u>
	<b>19(0)</b>		<b>17(3)</b>
<b>Junior</b>			
BI 201 Anatomy and Physiology I	4	BI 202 Anatomy and Physiology II	4
CH 391 Physical Chemistry	4	BI 282 Cell Biology	4
<i>CORE (Philosophy or Theology)</i>	3	<i>CORE (Literature)</i>	3
<i>CORE (History)</i>	3	MA 342 Numerical Computing I	3
PHIL 207 Business Ethics* - <i>CORE</i>	<u>3</u>	<i>CORE (Fine Arts)</i>	<u>3</u>
	<b>17(0)</b>		<b>17(0)</b>

**104 Credits Total (7 Engineering Credits)**

**Notes:**

\*Phil 207 is preferred but any philosophy course in ethics is acceptable.

The affiliated engineering schools have various minimum GPA requirements, but in general a 3.0 is required. This minimum is for engineering, mathematics, science, and computer science courses as well as for overall GPA, and must be achieved by the end of the fifth semester at Carroll or at the end of the second semester prior to transferring to the affiliated school. Check the Carroll catalog for more details.

EC 203 fulfills 3 of the 6 required CORE credits in the social sciences.

The CORE requirements are that each student shall have a Global Diversity (GD) course or experience and a National Diversity (ND) course or experience. In addition, each student must complete two Writing Intensive (WI) courses while at Carroll, one inside the major and the other outside the major. These may be met by courses the student is taking to fulfill other CORE requirements. This four-year plan assumes that GD, ND, and WI requirements will be met with courses that also fulfill other CORE requirements.

3-2 biomedical students are exempt from taking ENGR 104 Computer Aided Design, and they take CH 391 Physical Chemistry in place of ENGR/PHYS 342 Thermal Physics.

3-2 students are exempt from the CORE requirement to take 2 theology and 2 philosophy courses. Instead, 3-2 students must take TH 101 plus two courses, one in philosophy and one in theology, or two courses in philosophy.