



CARROLL COLLEGE
3-2 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.

Freshman			
<u>Fall</u>		<u>Spring</u>	
ENGR/PHYS 155 Robotics	3	ENGR 104 Computer Aided Design (CAD)	3
ENGR 105 Intro to Engineering	1	CHEM 111 Essentials of Chemistry	4
BI 102 Human Biology – <i>CORE</i>	4	MA 131 Single Variable Calculus	4
MA 141 Intro to Math Modeling - <i>CORE</i>	4	TH 101 Theology - <i>CORE</i>	3
LAS 101 Alpha Seminar - <i>CORE</i>	<u>3</u>	CO 101 Communications - <i>CORE</i>	<u>3</u>
	15(4)		17(3)
Sophomore			
ENGR/MA/CS/SCI Elective	3-4	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>	<u>4</u>	EC 203 Project Management Econ - <i>CORE</i>	3
	15-16(3-4)	<i>CORE (Social Science)</i>	<u>3</u>
			17(3)
Junior			
ENGR Elective	3-4	ENGR/PHYS 342 Thermal Physics	3
ENGR Elective or <i>CORE (Literature)</i>	3	<i>CORE (Literature) or ENGR Elective</i>	3
<i>CORE (Philosophy or Theology)</i>	3	ENGR Elective	3-4
MA 315 Probability and Statistics or <i>or CORE (History)</i>	3	<i>CORE (History)</i>	
PHIL 207 Business Ethics* - <i>CORE</i>	<u>3</u>	or MA 342 Numerical Computing I	3
	15-16(6-7)	<i>CORE (Fine Arts)</i>	<u>3</u>
			15-16(6-7)

94-97 Credits Total (25-28 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.

Students considering biomedical engineering at an affiliated engineering school should follow the specific 3-2 plan for biomedical engineering.

Engineering electives are chosen with approval of the engineering advisor.

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 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.