



**CARROLL COLLEGE**  
**B.S. Civil Engineering: Environmental Emphasis**  
**4-Yr Plan for Admission in 2017-2018**

<b>Freshman</b>			
<u>Fall</u>		<u>Spring</u>	
ENGR/PHYS 155 Robotics	3	ENGR 104 Engr Graphics & CAD Apps	3
ENGR 105 Intro to Engineering	1	MA 131 Single Variable Calculus	4
MA 141 Intro to Math Modeling - <i>CORE</i>	4	CHEM 111 Essentials of Chemistry	4
BI 102 Human Biology - <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>
	<b>15(4)</b>		<b>17(3)</b>
<b>Sophomore</b>			
ENGR 315 Transportation Engineering I	2	ENGR 302 Engr Mechanics I: Statics	3
ENGR 205 CE Materials & Testing	2	MA 314 Prob & Stats for Engineers	2
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 Composition - <i>CORE</i>	<u>4</u>	<i>CORE (Social Science)</i>	<u>3</u>
	<b>16(4)</b>		<b>16(3)</b>
<b>Junior</b>			
ENGR 303 Engr Mechanics II: Solids	3	ENGR 326 Energy and the Environment	3
ENGR 307 Fluid Mechanics ( <i>WI</i> )	3	ENGR 310 Structures I	3
ENGR 313 Hydrology	3	ENGR 324 Air Quality	2
ENGR 323 Water Quality	2	EC 203 Proj Management Econ - <i>CORE</i>	3
ENGR 329 Environment and Public Health	3	<i>CORE (History)</i>	3
PHIL 206 Environmental Ethics* - <i>CORE</i>	<u>3</u>	<i>CORE (Literature)</i>	<u>3</u>
	<b>17(14)</b>		<b>17(8)</b>
<b>Senior</b>			
ENGR 325 Hydrogeology	3	ENGR 405 Water and Wastewater	4
ENGR 327 Land and Stream Restoration	3	ENGR 412 Senior Design Project II	2
ENGR 401 Hydraulics	3	ENGR 424 Groundwater Modeling	3
ENGR 409 Transportation Engineering II	3	<i>CORE (Theology)</i>	3
ENGR 411 Senior Design Project I	2	<i>CORE (Fine Arts)</i>	<u>3</u>
<i>CORE (Philosophy)</i>	<u>3</u>		<b>15(9)</b>
	<b>17(14)</b>		

**130 Credits Total (59 Engineering Credits)**

**Notes:**

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

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. These may be met by courses the student is taking to fulfill other CORE requirements. This four-year plan assumes that both GD and ND will be met with a course that also fulfills another CORE requirement.

If there is room in your schedule because of transfer, summer, or advanced placement credits, CS 110 Java Programming or CS 220 Programming in Excel is strongly recommended.