



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

<u>Fall</u>		<b>Freshman</b>	<u>Spring</u>	
ENGR 105 Intro to Engineering	1		ENGR 104 Engr Graphics & CAD Apps	3
ENGR/PHYS 155 Robotics	3		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 205 CE Materials & Testing	2		ENGR 202 Water Distribution	1
ENGR 315 Transportation Engineering I	2		ENGR 302 Engr Mechanics I: Statics	3
MA 233 Multivariable Calculus	4		ENGR 326 Energy and Environment	3
PHYS 205 Engineering Physics I	4		MA 334 Diff Eqs & Linear Algebra II	4
ENWR 102 Composition - <i>CORE</i>	<u>4</u>		PHYS 206 Engineering Physics II	<u>4</u>
	<b>16(4)</b>			<b>15(7)</b>
<b>Junior</b>				
ENGR 303 Engr Mechanics II: Solids	3		ENGR 309 Geotechnical Engineering	3.5
ENGR 305 Electronics & Circuits Anal. I	4		ENGR 310 Structures I	3
ENGR 307 Fluid Mechanics ( <i>WI</i> )	3		ENGR 402 Environmental Engineering	3
ENGR 313 Hydrology	3		EC 203 Project Management. Econ - <i>CORE</i>	3
PHIL 206 Environmental Ethics* - <i>CORE</i>	<u>3</u>		<i>CORE (History)</i>	<u>3</u>
	<b>16(13)</b>			<b>15.5(9.5)</b>
<b>Senior</b>				
ENGR 401 Hydraulics	3		ENGR 405 Water and Wastewater	4
ENGR 403 Structures II: Steel Design	3		ENGR 406 Structures III: Concrete Design	2
ENGR 409 Transportation Engineering II	3		ENGR 412 Senior Design Project II	2
ENGR 411 Senior Design Project I	2		<i>CORE (Theology)</i>	3
<i>CORE (Literature)</i>	3		<i>CORE (Social Science)</i>	3
<i>CORE (Philosophy)</i>	<u>3</u>		<i>CORE (Fine Arts)</i>	<u>3</u>
	<b>17(11)</b>			<b>17(8)</b>

**128.5 Credits Total (59.5 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.