

CARROLL COLLEGE
Engineering Mechanics

Freshman

<u>Fall</u>		<u>Spring</u>	
MA 131 Calculus	4	MA 232 Diff Eqns and Linear Alg I	4
CS 110 JAVA Programming	4	MA/CS 106 Programming in Excel	3
EN 102 Composition	4	TH 101 Theology	3
LAS 101 Alpha Seminar	3	CO 101 Communications	3
ENGR 105 GIS/Surveying/CAD I	<u>2</u>	ENGR 106 GIS/Surveying/CAD II	<u>2</u>
	17		15

Sophomore

MA 233 Multivariable Calculus	4	MA 334 Diff Eqns and Linear Alg II	4
ENGR 313 Hydrology***	3	MA 336 Probability and Statistics I	2
PHYS 205 Engr Physics I	4	ENGR 202 Water Distribution	1
ENWR 305 Technical Writing	3	ENGR 302 Engr Mechanics-Statics	3
CORE (Philosophy)	<u>3</u>	PHYS 206 Engineering Physics II	4
	17	Social Science Elective	<u>3</u>
			17

Junior

ENGR 303 Mechanics of Solids***	3	ENGR 308 Thermodynamics	3
ENGR 305 Electrical Circuits I***	4	ENGR 306 Electrical Circuits II***	4
ENGR 307 Fluid Mechs***	3	ENGR 310 Structures	3
MA 341 Probability and Statistics II	3	MA 342 Numerical Computing	3
CORE (History)	<u>3</u>	EC 203 Proj Management Econ	<u>3</u>
	16		16

Senior

ENGR 401 Hydraulics***	3		
ENGR 304 Dynamics	3	ENGR/MA 4XX Numerical Comp II	3
MA 421 Optimization	3	PHIL 207 Business Ethics**	3
ENGR 411 Senior Design Project I	2	ENGR 412 Senior Design Project II	2
CORE (Literature)	3	CORE (Theology)	3
Free Elective	<u>(3)</u>	CORE (Fine Arts)	<u>3</u>
	14(17)		14

126 Credits Total

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

***This engineering course includes a lab

Note: 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.