

Civil & Environmental Engineering Concentration Model Program

First Year	Fall (16)	<input type="checkbox"/>	4	Chemistry 103	General Chemistry (F)
		<input type="checkbox"/>	2	Engineering 101	Intro to Engineering Design (F)
		<input type="checkbox"/>	2	Engineering 181	Graphical Communication Lab (F)
		<input type="checkbox"/>	4	Mathematics 171	Calculus I (F,S)
		<input type="checkbox"/>	3	<i>English 101</i>	<i>Written Rhetoric</i>
	<input type="checkbox"/>	1	Interdisciplinary 149	First Year Prelude	
	INT	<input type="checkbox"/>	3	<i>Interdisciplinary 150</i>	<i>Developing the Christian Mind</i>
	Spring (17)	<input type="checkbox"/>	4	Engineering 106	Engineering Chemistry and Materials Science (S)
		<input type="checkbox"/>	4	Mathematics 172	Calculus II (F,S)
		<input type="checkbox"/>	4	Physics 133	Introductory Physics, Mechanics and Gravity (F,S)
<input type="checkbox"/>		4	<i>History 151 or 152</i>	<i>History of the West and the World</i>	
<input type="checkbox"/>		1	<i>Health and Fitness</i>	<i>(PER 101-112)</i>	

This worksheet is for students entering Calvin in the Fall of 2009 or later.

Second Year	Fall (16)	<input type="checkbox"/>	4	Engineering 202	Statics and Dynamics (F,S)
		<input type="checkbox"/>	3	Mathematics 270	Multivariable Calculus (F,S)
		<input type="checkbox"/>	4	Physics 235	Introductory Physics: Electricity and Magnetism (F)
		<input type="checkbox"/>	2	<i>Mathematics 241</i>	<i>Engineering Statistics (F)</i>
		<input type="checkbox"/>	3	<i>Religion 121 or 131</i>	
	<input type="checkbox"/>	0	Engineering 295	Internship Workshop	
	INT	<input type="checkbox"/>	3	Free Elective (or consider taking IDIS 103 <i>here in place of IDIS 102</i> later)	
	Spring (17)	<input type="checkbox"/>	4	Engineering 209	Intro to the Laws of Conservation & Thermodynamics (F,S)
		<input type="checkbox"/>	4	Engineering 204	Intro to Circuit Analysis and Electronics with Lab (F,S)
		<input type="checkbox"/>	4	Mathematics 231	Differential Equations with Linear Algebra (F,S)
<input type="checkbox"/>		3	<i>Economics 151 or 221</i>	<i>Principles of Economics/Principles of Microeconomics</i>	
<input type="checkbox"/>		2	Computer Science 104	Applied C++ (S) (CS 106 or 108 may be substituted but both are 4 credit hours)	
<input type="checkbox"/>	0	Engineering 294	Seminar		

Third Year	Fall (16)	<input type="checkbox"/>	4	Engineering 305	Mechanics of Materials (F)
		<input type="checkbox"/>	4	Engineering 319	Intro. To Thermal/Fluid Sciences (F)
		<input type="checkbox"/>	4	Engineering 306	Environmental Engineering (F)
		<input type="checkbox"/>	3	<i>The Arts</i>	<i>See Core Curriculum section catalog for options</i>
		<input type="checkbox"/>	1	<i>Health and Fitness</i>	<i>(PER 120-159) (or during interim)</i>
	INT	<input type="checkbox"/>	3	<i>Cross-Cultural Engagement</i>	
	Spring (17)	<input type="checkbox"/>	4	Engineering 320	Hydraulic Engineering (S)
		<input type="checkbox"/>	4	Engineering 326	Structural Analysis (S)
		<input type="checkbox"/>	4	One of	Engineering 308 - Environmental Engineering Design (S)* Engineering Elective (Minimum of 3 credits - see catalog for restrictions)
		<input type="checkbox"/>	2	<i>IDIS 102</i>	<i>Oral Rhetoric for Engineers (F,S)</i>
<input type="checkbox"/>		3	<i>Philosophy 153</i>	<i>Fundamental Questions in Philosophy</i>	

Note to HONORS Students ENGR 385 or 387 is required of all students seeking to graduate with honors. Talk to your advisor or consult the catalog for details.

Fourth Year	Fall (15)	<input type="checkbox"/>	8	Two of	Engineering 321 - Hydraulic Engineering Design (F) Engineering 327 - Structural Design (F) Elective: Basic Science , Adv. Math or Engr. Elective
		<input type="checkbox"/>	2	Engineering 339	Senior Design Project (F)
		<input type="checkbox"/>	3	<i>Literature</i>	<i>See Core Curriculum section of catalog for options</i>
		<input type="checkbox"/>	2	Business 357	Business Aspects for Engineers (F)
	INT	<input type="checkbox"/>	3	Engineering Special Topics Elective	
	Spring (16)	<input type="checkbox"/>	4	Elective: Basic Science or Advanced Math	
		<input type="checkbox"/>	4	Engineering 340	Senior Design Project (S)
		<input type="checkbox"/>	4	One of	Elective: Basic Science , Adv. Math or Engr. Elective (if not taken in fourth year fall) Engineering 308 - Environmental Engineering Design (S) Engineering Elective (if not take in third year spring)
		<input type="checkbox"/>	1	<i>Health and Fitness</i>	<i>(PER 100-189) (or during interim)</i>
		<input type="checkbox"/>	3	Free Elective	
<input type="checkbox"/>	0	Engineering 394	Engineering Seminar		

Pink listings (core courses) may be swapped as long as all are completed. See Elective Options sheet for elective courses highlighted in green, red, orange, and blue.
*All CE concentration students must take at least two of Engr. 308, 321, or 327.

Other Requirements

- 0-8 Foreign Language (2 years of high school or one year of college)

