

Mechanical 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 (17)	<input type="checkbox"/>	4 Engineering 202	Statics and Dynamics (F,S)
	<input type="checkbox"/>	4 Mathematics 271	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>	<i>Biblical Literature/Christian Theology</i>
	<input type="checkbox"/>	0 Engineering 2xx	Internship Workshop
INT	<input type="checkbox"/>	3 Free Elective (or consider taking <i>CAS 101 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 (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)
<input type="checkbox"/>	0 Engineering 294	Seminar	

Third Year

Fall (17)	<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 Elective: <i>Basic Science</i> or <i>Advanced Math</i>	
	<input type="checkbox"/>	3 <i>The Arts</i>	<i>See Core Curriculum section of catalog for options</i>
	<input type="checkbox"/>	2 <i>IDIS 102</i>	<i>Oral Rhetoric for Engineers (F,S)</i>
INT	<input type="checkbox"/>	3 <i>Cross-Cultural Engagement</i>	
Spring (16)	<input type="checkbox"/>	4 Engineering 322	Machine Design (S)
	<input type="checkbox"/>	4 Engineering 328	Intermediate Thermal/Fluid Sciences & Design (S)
	<input type="checkbox"/>	3 Engineering 334	Dynamics of Machinery (S)
	<input type="checkbox"/>	1 Engineering 382	Engineering Instrumentation Laboratory (S)
	<input type="checkbox"/>	1 <i>Health and Fitness</i>	<i>(PER 120-159) (or during interim)</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 about details.

Fourth Year

Fall (15)	<input type="checkbox"/>	4 Engineering 333	Thermal Systems Design (F)
	<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"/>	4 Elective: <i>Basic Science</i> or <i>Advanced Math</i> or <i>Engr. Elective</i>	
	<input type="checkbox"/>	2 Business 357	Business Aspects for Engineers (F)
INT	<input type="checkbox"/>	3 Engineering Special Topics Elective	
Spring (15/16)	<input type="checkbox"/>	4 Engineering 324	Materials & Processes in Manufacturing (S)
	<input type="checkbox"/>	4 Engineering 340	Senior Design Project (S)
	<input type="checkbox"/>	3-4 <i>Engineering Elective (Minimum of 3 credits -- see catalog for restrictions)</i>	
	<input type="checkbox"/>	3 Free Elective	
	<input type="checkbox"/>	1 <i>Health and Fitness</i>	<i>(PER 160-189) (or during interim)</i>
<input type="checkbox"/>	0 Engineering 394	Engineering Seminar (For students admitted for fall 2009 or later)	

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.

Other Requirements

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



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