

Mechanical Engineering Concentration Model Program

				High School Credit	
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 French 362	French Lit of North Africa	
	<input type="checkbox"/>	1 Interdisciplinary 149	First Year Prelude	4 Math 143	
	INT	<input type="checkbox"/>	3 Interdisciplinary 150	Developing the Christian Mind	Written Rhetoric History of the West and the World Conversation Grammar Statistics
	Spring (17)	<input type="checkbox"/>	4 Engineering 106	Engineering Chemistry and Materials Science (S)	Credit Exams
		<input type="checkbox"/>	4 Mathematics 172	Calculus II (F,S)	
		<input type="checkbox"/>	4 Physics 133	Introductory Physics, Mechanics and Gravity	3 French 301
<input type="checkbox"/>		2 IDIS 102	Oral Rhetoric for Engineers (F,S)	3 French 302	Adv. Grammar
<input type="checkbox"/>		3 Religion 121 or 131	Biblical Literature/Christian Theology	Exemption: 1 PER 139 (Wilderness Pursuits)	
Second Year	Fall (17)	<input type="checkbox"/>	0 Engineering 185	Engineering Internship (SAIC, San Diego, CA)	
		<input type="checkbox"/>	4 Engineering 209	Intro to the Laws of Conservation and Thermodynamics	
		<input type="checkbox"/>	3 Mathematics 270	Multivariable Calculus (F)	
		<input type="checkbox"/>	4 Physics 235	Introductory Physics: Electricity and Magnetism (F)	
		<input type="checkbox"/>	2 Computer Science 104	Applied C++ (F)	
	<input type="checkbox"/>	3 French 361	French Lit and Culture in Quebec	★ENGR 20x - All these courses are required but can be taken in any order: -ENGR 202* - Statics and Dynamics -ENGR 204 - Intro to Circuit Analysis and Electronics with Lab -ENGR 209 - Intro to the Laws of Conversation & Thermodynamics	
	<input type="checkbox"/>	1 Health and Fitness	PER 107 Strength and Conditioning		
	<input type="checkbox"/>	0 Engineering 295	Internship Workshop		
	INT	<input type="checkbox"/>	3 French W80		Interim in Quebec
	Spring (15)	<input type="checkbox"/>	4 Engineering 202		Statics and Dynamics
<input type="checkbox"/>		4 Engineering 204	Intro to Circuit Analysis and Electronics		
<input type="checkbox"/>		4 Mathematics 231	Differential Equations with Linear Algebra (F,S)		
<input type="checkbox"/>		3 French 395	French Capstone (Sub for 351)		
<input type="checkbox"/>		0 Engineering 294	Seminar		
Third Year	Fall (17)	<input type="checkbox"/>	0 Engineering 285		Engineering Internship Steelcase
		<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"/>	3 Philosophy 153	Fundamental Questions in Philosophy	
		<input type="checkbox"/>	3 French 373	French for International Business	
	<input type="checkbox"/>	3 Economics 221	Principles of Microeconomics	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.	
	INT	<input type="checkbox"/>	3 Engineering Interim		Nielsen's Tour of Europe (CCE)
	Spring (16)	<input type="checkbox"/>	4 Engineering 322		Machine Design with Finite Element Analysis (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"/>		4 Engineering 338	Traffic Engineering (S) (Tech Elective)		
Fourth Year	Fall (15)	<input type="checkbox"/>	0 Engineering 387		International Engineering Internship (Somewhere in French Europe, Africa)
		<input type="checkbox"/>	4 Engineering 333		Thermal Systems Designs (F)
		<input type="checkbox"/>	2 Engineering 339		Senior Design Project (F)
		<input type="checkbox"/>	3 Do Something Fun, maybe another French, maybe GIS, maybe Arts Core		
		<input type="checkbox"/>	2 Business 357	Business Aspects for Engineers (F)	
	<input type="checkbox"/>	3 Biology 364	Global Health and Sustainability (Basic Science)	Pink listings (core courses) may be swapped as long as all are completed. Note: Engr339 has core courses as prereqs. See Elective Options sheet for elective courses highlighted in green, red, orange, blue and purple.	
	<input type="checkbox"/>	1 Health and Fitness	(PER 160-189) (or during interim)		
	INT	<input type="checkbox"/>	3 Engineering Special Topics Elective		
	Spring (15)	<input type="checkbox"/>	4 Engineering 324		Materials & Processes in Manufacturing (S)
		<input type="checkbox"/>	4 Engineering 340		Senior Design Project (S)
<input type="checkbox"/>		4 Engineering 314 or 315	Vibrations Analysis or Control Systems		
<input type="checkbox"/>		3 Arts Core (Probably French 375)			
<input type="checkbox"/>		0 Engineering 394	Engineering Seminar		

French Major

Y	<input type="checkbox"/>	6 French 301/302 (See Credit Exams)	
Y	<input type="checkbox"/>	3 French 395	
Y	<input type="checkbox"/>	3 French 361 (Lit)	
Y	<input type="checkbox"/>	3 French 362 (Elective)	One of these is considered a substitute for Fren 351
Y	<input type="checkbox"/>	3 French W80 (Elective)	
Y	<input type="checkbox"/>	3 French 373 (Elective)	
N	<input type="checkbox"/>	3 French Internship Abroad	
N	<input type="checkbox"/>	3 French 371 (Elective)	
Total	<input type="checkbox"/>	27	

Revised Nov 2013

CALVIN Engineering