French - Engineering Double Major (Electrical & Computer Engineering Concentration)

Year 1

Fall (17)
4	Chemistry 103	General Chemistry (F)
2	Engineering 101	Intro to Engineering Design (F)
2	Engineering 181	Graphical Communication Lab (F)
4	Mathematics 171	Calculus I (F,S)
4	*French 131 or 201*	*Introductory French or Intermediate French I*
1	Interdisiplinary 149	First Year Prelude

INT
3	*French 132*	*Intermediate French I (if took FREN131), else DCM*

Spring (17)
4	Engineering 106	Engineering Chemistry and Materials Science (S)
4	Mathematics 172	Calculus II (F,S)
4	Physics 133	Introductory Physics, Mechanics and Gravity (F,S)
4	*French 202*	*Intermediate French II*
1	*Health and Fitness*	*(PER 101-112)*

Year 2

Fall (15)
3	French 301	Advanced Conversation
3	Mathematics 270	Multivariable Calculus (F,S)
4	Physics 235	Introductory Physics: Electricity and Magnetism (F)
2	Mathematics 241	Engineering Statistics (F)
3	*Economics 151 or 221*	*Principles of Economics/Principles of Microeconomics*
0	Engineering 295	Internship Workshop

INT
3	*Interdisiplinary 150*	*Developing the Christian Mind*

Spring (17)
4	Engineering 209	Intro to the Laws of Conservation & Thermodynamics (F,S)
4	Engineering 204	Intro to Circuit Analysis and Electronics with Lab (F,S)
4	Mathematics 231	Differential Equations with Linear Algebra (F,S)
3	French 302	Advanced Grammar
2	Computer Science 104	Applied C++ (S) (CS 106 or 108 may be substituted but both are 4 credit hours)
0	Engineering 294	Seminar (for students entering Calvin fall 2009 or later.)

Year 3 or 4

Fall (15)
3	STFR 315	Advanced Language Study in France I
3	STFR 316	Advanced Language Study in France II
3	STFR 381	Special Topics
3	*The Arts*	
3	*Cross-Cultural Engagement*	

INT
3	*IDIS 103*	*Oral Rhetoric for Engineers (F,S)*

Spring (15)
4	Engineering 304	Fundamentals of Digital Systems (S)
4	French 351	Survey of French Literature (S)
4	Engineering 202	Statics and Dynamics (F,S) [MUST be taken in Year 3]
3	*Religion 121 or 131*	*Biblical Literature/Christian Theology*

Year 3 or 4

Fall (15)
4	Engineering 311	Electronic Devices and Circuits (F)
4	Engineering 307	Electrical Signals and Systems (F)
4	Computer Science 112	Intro to Data Structures with C++ (F,S)
3	*English 101*	*Written Rhetoric*

INT
1	*Health and Fitness*	*(PER 120-159)*

Spring (15)
4	Engineering 332	Analog Circuits and Systems Design (S)
4	Elective: Basic Science or Math or Engineering Elective	
4	*History 151 or 152*	*History of the West and the World*
3	*Philosophy 153*	*Fundamental Questions in Philosophy*

Summer
0	Engineering 387	International Engineering Internship (in French speaking region)

Year 5

Fall (15)
4	Engineering 325	Computer Architecture and Digital Systems Design (F)
2	Engineering 339	Senior Design Project (F)
3	*French 3xx*	*French elective in Literature*
4	Engineering Elective (Minimum of 3 credits -- see catalog for restrictions)	
2	Business 357	Business Aspects for Engineers (F)

INT
3	Engineering Special Topics Elective	

Spring (13)
4	Engineering 302	Engineering Electromagnetics (S)
4	Engineering 340	Senior Design Project (S)
4	Elective: Basic Science or Advanced Math	
1	*Health and Fitness*	*(PER 160-189) (or during interim)*
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.

CALVIN Engineering

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