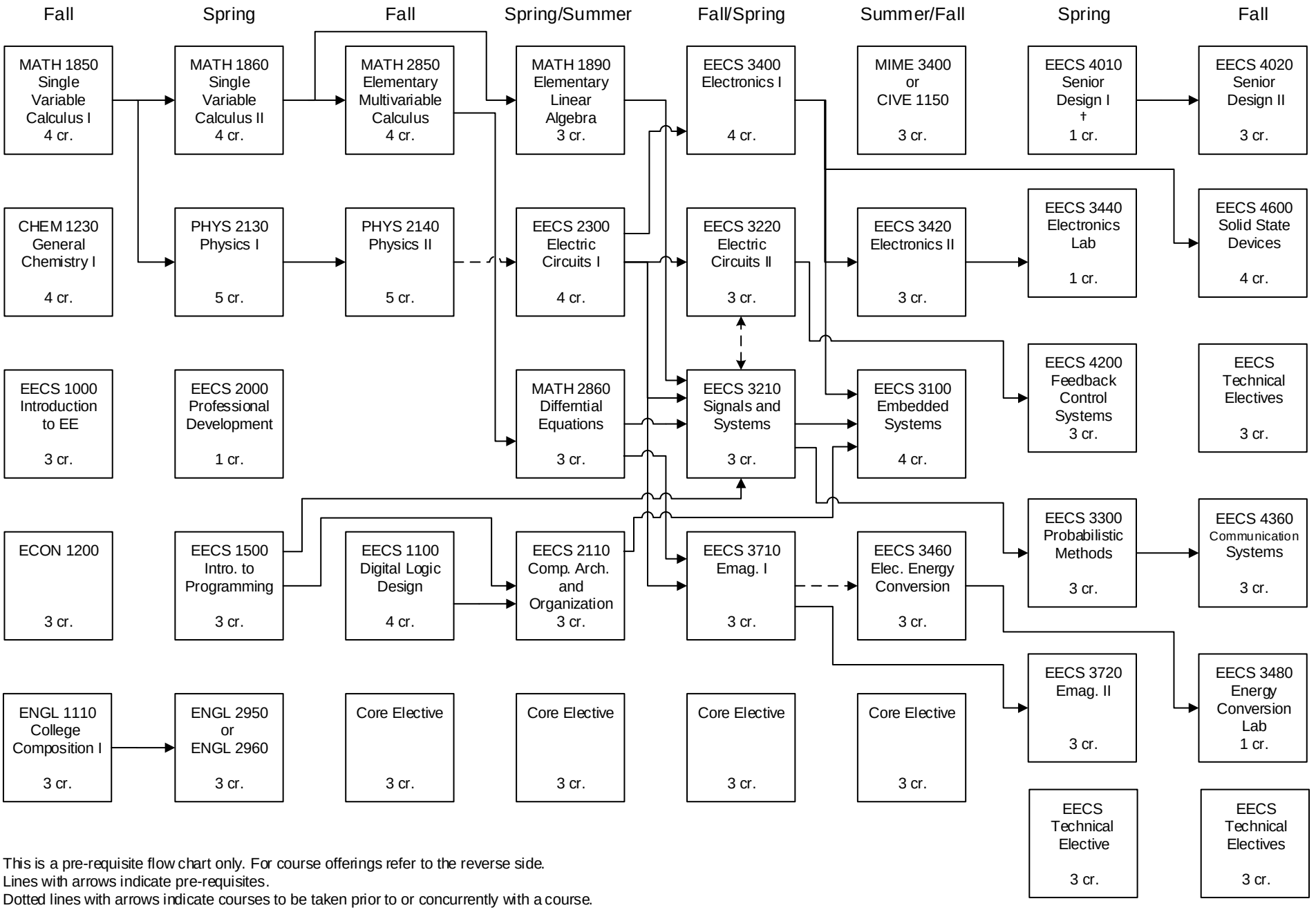
Electrical Engineering Flowchart



- This is a pre-requisite flow chart only. For course offerings refer to the reverse side.
- Lines with arrows indicate pre-requisites.
- Dotted lines with arrows indicate courses to be taken prior to or concurrently with a course.
- Selection of Hum./Soc. Sci./MC Electives must satisfy the University core requirements.

† Additional prerequisite: Senior standing and either EECS 3100 or EECS 3420

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EE Program – **Co-op Plan A**

	Fall Semester	Spring Semester	Summer Semester
Freshman Year	MATH 1850 Single Variable Calculus I 4 cr. CHEM 1230 General Chemistry I 4 cr. ENGL 1110 College Composition I 3 cr. EECS 1000 Intro to EE 3 cr. ECON 1200 Microeconomics *or* ECON 1150 Macroeconomics 3 cr. **Total 17 hours**	MATH 1860 Single Variable Calculus II 4 cr. PHYS 2130 Physics for Sci & Eng. I 5 cr. EECS 2000 Professional Development 1 cr. EECS 1500 Introduction to Prog. 3 cr. ENGL 2950 Tech Rpt. Writing *or* ENGL 2960 Organizational Rpt Wrtg 3 cr. **Total 16 hours**	
Sophomore Year	MATH 2850 Elem. Multivariable Calculus 4 cr. PHYS 2140 Physics for Sci & Eng. II 5 cr. EECS 1100 Digital Logic Design 4 cr. Core Elective 3 cr. **Total 16 hours**	EECS 3940:001 Co-Op Experience # 1	MATH 2860 Elem Differential Equations 3 cr. MATH 1890 Elem. Linear Algebra 3 cr. EECS 2300 Electric Circuits I 4 cr. EECS 2110 Comp Org & Architecture 3 cr. Core Elective 3 cr. **Total 16 hours**
Pre-Junior Year	EECS 3940:002 Co-Op Experience # 2	EECS 3400 Electronics I 4 cr. EECS 3210 Signals & Systems 3 cr. EECS 3220 Electric Circuits II 3 cr. EECS 3710 Electromagnetics I 3 cr. Core Elective 3 cr. **Total 16 hours**	EECS 3940:003 Co-Op Experience #3
Junior Year	EECS 3420 Electronics II 3 cr. EECS 3460 Energy Conversion 3 cr. EECS 3100 Embedded Systems 4 cr. MIME 3400 Thermodynamics I *or* CIVE 1150 Statics 3 cr. Core Elective 3 cr. **Total 16 hours**	EECS 4010 Senior Design I 1 cr. EECS 3300 Probabilistic Methods 3 cr. EECS 3440 Electronics Lab 1 cr. EECS 3720 Electromagnetics II 3 cr. EECS 4200 Feedback Control Systems 3 cr. EECS Technical Elective 3 cr. **Total 14 hours**	EECS 3950:004 Optional Co-Op Experience # 4
Senior Year	EECS 4020 Senior Design II 3 cr. EECS 3480 Energy Conversion Lab 1 cr. EECS 4360 Communication Systems 3 cr. EECS 4600 Solid State Devices 4 cr. EECS Technical Electives 6 cr. **Total 17 hours**		

EE Program – **Co-op Plan B**

	Fall Semester	Spring Semester	Summer Semester
Freshman Year	MATH 1850 Single Variable Calculus I 4 cr. CHEM 1230 General Chemistry I 4 cr. ENGL 1110 College Composition I 3 cr. EECS 1000 EECS Intro to EE 3 cr. ECON 1200 Microeconomics *or* ECON 1150 Macroeconomics 3 cr. **Total 17 hours**	MATH 1860 Single Variable Calculus II 4 cr. PHYS 2130 Physics for Sci & Eng. I 5 cr. EECS 2000 Professional Development 1 cr. EECS 1500 Introduction to Prog. 3 cr. ENGL 2950 Tech Rpt. Writing *or* ENGL 2960 Organizational Rpt Wrtg 3 cr. **Total 16 hours**	
Sophomore Year	MATH 2850 Elem. Multivrble Calculus 4 cr. PHYS 2140 Physics for Sci & Eng. II 5 cr. EECS 1100 Digital Logic Design 4 cr. Core Elective 3 cr. **Total 16 hours**	MATH 2860 Elem Differential Equations 3 cr. MATH 1890 Elem Linear Algebra 3 cr. EECS 2300 Electric Circuits I 4 cr. EECS 2110 Comp Org & Architecture 3 cr. Core Elective 3 cr. **Total 16 hours**	EECS 3940:001 Co-Op Experience # 1
Pre-Junior Year	EECS 3400 Electronics I 4 cr. EECS 3210 Signals & Systems 3 cr. EECS 3710 Electromagnetics I 3 cr. EECS 3220 Electric Circuits II 3 cr. Core Elective 3 cr. **Total 16 hours**	EECS 3940:002 Co-Op Experience # 2	EECS 3420 Electronics II 3 cr. EECS 3460 Energy Conversion 3 cr. EECS 3100 Embedded Systems 4 cr. MIME 3400 Thermodynamics I *or* CIVE 1150 Statics 3 cr. Core Elective 3 cr. **Total 16 hours**
Junior Year	EECS 3940:003 Co-Op Experience #3	EECS 4010 Senior Design I 1 cr. EECS 3300 Probabilistic Methods 3 cr. EECS 3440 Electronics Lab 1 cr. EECS 3720 Electromagnetics II 3 cr. EECS 4200 Feedback Control Systems 3 cr. EECS Technical Elective 3 cr. **Total 14 hours**	EECS 3950:004 Optional Co-Op Experience # 4
Senior Year	EECS 4020 Senior Design II 3 cr. EECS 3480 Energy Conversion Lab 1 cr. EECS 4360 Communication Systems 3 cr. EECS 4600 Solid State Devices 4 cr. EECS Technical Electives 6 cr. **Total 17 hours**		

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