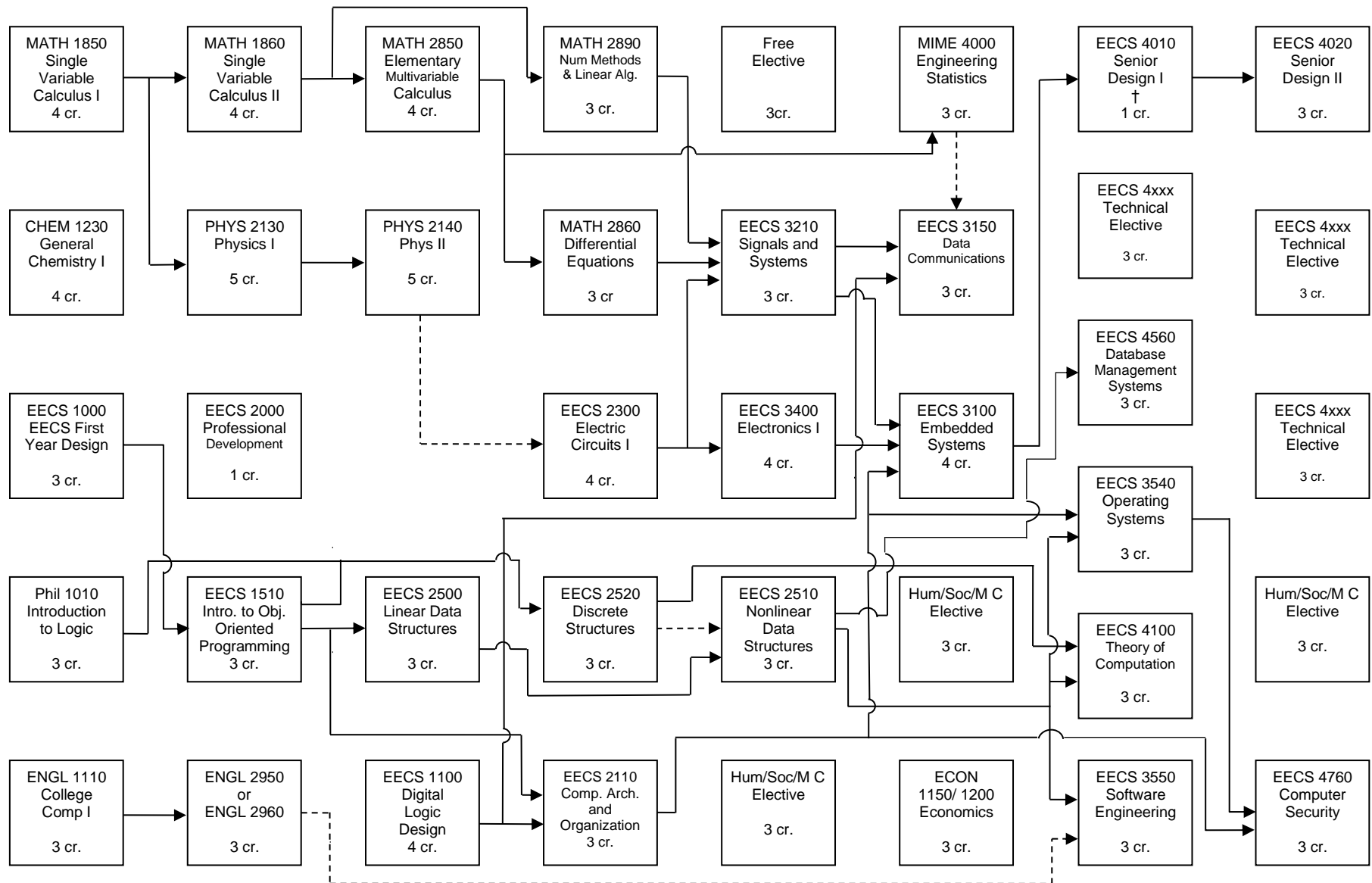


Computer Science and Engineering Flow Chart (For Students entering Fall 2019 – Spring 2020)



- 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.
- If you have any questions, please contact the EECS department in Nitschke Hall Room 2008.
- † Additional prerequisite: Senior standing.

Revised 9/28/20 cmh

CSE Program – Co-op Plan A

	Fall Semester	Spring Semester	Summer Semester
Freshman Year	PHIL 1010 Intro to Logic 3 cr. MATH 1850 Single Variable Calculus I 4 cr. CHEM 1230 General Chemistry I 4 cr. EECS 1000 EECS First Year Design 3 cr. ENGL 1110 College Composition I 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 1510 Intro. to Obj. Orient. Prog. 3 cr. ENGL 2950 Sci & Tech. Rpt. Wrtg or ENGL 2960 Organizational. Rpt. Wrtg. 3 cr. Total 16 hours	
Sophomore Year	MATH 2850 Elem. Multivariable Calc. 4 cr. PHYS 2140 Physics for Sci. & Eng. II 5 cr. EECS 2500 Linear Data Structures 3 cr. EECS 1100 Digital Logic Design 4 cr. Total 16 hours	EECS 3940:001 Co-Op Experience # 1	MATH 2890 Num. Meth & Linear Alg 3 cr. MATH 2860 Differential Equations 3 cr. EECS 2300 Electric Circuits I 4 cr. EECS 2520 Discrete Structures 3 cr. EECS 2110 Computer Arch. & Org. 3 cr. Total 16 hours
Pre-Junior Year	EECS 3940:002 Co-Op Experience # 2	EECS 3210 Signals & Systems 3 cr. EECS 3400 Electronics I 4 cr. EECS 2510 Nonlinear Data Structures 3 cr. Hum/Soc/Multicultural Electives 3 cr. Free Elective 3 cr. Total 16 hours	EECS 3940:003 Co-Op Experience # 3
Junior Year	EECS 3150 Data Communication 3 cr. EECS 3100 Embedded Systems 4 cr. ECON 1200 Microeconomics or ECON 1150 Macroeconomics 3 cr. MIME 4000 Engineering Statistics 3 cr. Hum/Soc/Multicultural Electives 3 cr. Total 16 hours	EECS 4010 Senior Design I 1 cr. EECS 3540 Operating Systems 3 cr. EECS 4100 Theory of Computation 3 cr. EECS 3550 Software Engineering 3 cr. EECS 4560 Database Mgmt. Systems 3 cr. EECS Technical Elective 3 cr. Total 16 hours	EECS 3950:004 Co-Op Experience # 4
Senior Year	EECS 4020 Senior Design II 3 cr. EECS 4760 Computer Security 3 cr. EECS Technical Electives 6 cr. Hum/Soc/Multicultural Electives 3 cr. Total 15 hours		

CSE Program – Co-op Plan B

	Fall Semester	Spring Semester	Summer Semester
Freshman Year	PHIL 1010 Intro to Logic 3 cr. MATH 1850 Single Variable Calculus I 4 cr. CHEM 1230 General Chemistry I 4 cr. EECS 1000 EECS First Year Design 3 cr. ENGL 1110 College Composition I 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 1510 Intro. to Obj. Orient. Prog. 3 cr. ENGL 2950 Sci & Tech. Rpt. Wrtg or ENGL 2960 Organizational. Rpt. Wrtg. 3 cr. Total 16 hours	
Sophomore Year	MATH 2850 Elem. Multivariable Calc. 4 cr. PHYS 2140 Physics for Sci. & Eng. II. 5 cr. EECS 2500 Linear Data Structures 3 cr. EECS 1100 Digital Logic Design 4 cr. Total 16 hours	MATH 2890 Num. Meth & Linear Alg 3 cr. MATH 2860 Differential Equations 3 cr. EECS 2300 Electric Circuits I 4 cr. EECS 2520 Discrete Structures 3 cr. EECS 2110 Computer Arch. & Org. 3 cr. Total 16 hours	EECS 3940:001 Co-Op Experience # 1
Pre-Junior Year	EECS 3210 Signals & Systems 3 cr. EECS 3400 Electronics I 4 cr. EECS 2510 Nonlinear Data Structures 3 cr. Hum/Soc/Multicultural Electives 3 cr. Free Elective 3 cr. Total 16 hours	EECS 3940:002 Co-Op Experience # 2	EECS 3150 Data Communication 3 cr. EECS 3100 Embedded Systems 4 cr. ECON 1200 Microeconomics or ECON 1150 Macroeconomics 3 cr. MIME 4000 Engineering Statistics 3 cr. Hum/Soc/Multicultural Electives 3 cr. Total 16 hours
Junior Year	EECS 3940:003 Co-Op Experience # 3	EECS 4010 Senior Design I 1 cr. EECS 3540 Operating Systems 3 cr. EECS 4100 Theory of Computation 3 cr. EECS 3550 Software Engineering 3 cr. EECS 4560 Database Mgmt. Systems 3 cr. EECS Technical Elective 3 cr. Total 16 hours	EECS 3950:004 Co-Op Experience # 4
Senior Year	EECS 4020 Senior Design II 3 cr. EECS 4760 Computer Security 3 cr. EECS Technical Electives 6 cr. Hum/Soc/Multicultural Electives 3 cr. Total 15 hours		