

Computer & Systems Engineering

First Year							
CSCI-1100	Computer Science I	4		CSCI-1200	Data Structures	4	
ECSE-1010	Intro. to ECSE ⁷	4		MATH-1020	Calculus II	4	
ENGR-1200 OR ENGR-1400	Eng. Graphics & CAD ¹ OR Eng. Communications ¹	1			Science Elective	4	
MATH-1010	Calculus I	4			Hum., Arts or Soc. Sci. Elective	4	
	Hum., Arts or Soc. Sci. Elective	4					
Second Year							
CSCI-2200	Foundations of Comp. Sci.	4		CSCI-2300	Intro to Algorithms	4	
ECSE-2610	Cptr. Comp. & Operations	4		ECSE-2660	Cptr Arch, Nets, & Op Sys	4	
ENGR-2350	Embedded Control	4		MATH-2400	Intro. to Differential Equations	4	
PHYS-1100	Physics I	4		PHYS-1200	Physics II	4	
Summer Arch Semester		Third Year			Fall or Spring		
ECSE-2010	Electric Circuits	4		ECSE-2050	Intro. to Electronics	4	
ENGR-2050	Intro. to Eng. Design	4		ECSE-2410	Signals & Systems	3	
MATH-2010	Multivar Calc & Matrix Alg.	4		ECSE-2500	Engineering Probability	3	
	Hum., Arts or Soc. Sci. Elective	4			Free Elective ²	3-4	
					Hum., Arts or Soc. Sci. Elective	4	
				ECSE-2900	Enrichment Seminar	1	
Fourth Year							
ENGR-4010	Professional Development III	1			Professional Development II ^{3,4}	2	
	Technical Elective ^{5,6}	3-4			Restricted Elective ^{5,6}	3-4	
	Restricted Elective ^{5,6}	3-4		ECSE-4900	Multidisc. Capstone Design	3	
	Computer Eng Elective ⁴	3-4			Free Elective ²	3-4	
	Free Elective ²	3-4			Hum., Arts or Soc. Sci. Elective	4	
					Free Elective (if needed) ²	3-4	

- 1 May be taken either term.
- 2 The free electives must total at least 12 credits.
- 3 This course will be fulfilled from a list published at the start of each semester.
- 4 May be taken in the third year.
- 5 It is recommended that students use electives to form a concentration. See the ECSE Web page for concentration listings.
- 6 No more than one Independent Study course may be used when satisfying the combined Technical and Restricted Elective requirements.
- 7 May be replaced with ENGR 1100 Introduction to Engineering Analysis.

130 credits minimum

RESTRICTED ELECTIVE

Any 3 or 4 credit hour course with the designation ECSE-4xxx or ECSE-6xxx.

TECHNICAL ELECTIVE

Any 3- or 4-credit-hour course in engineering, mathematics, or science at the 4000 level or higher.

COMPUTER ENGINEERING ELECTIVES

ECSE-4670 Comp. Comm. Networks
 ECSE-4750 Computer Graphics
 ECSE-4770 Computer Hardware Design
 ECSE-4790 Microprocessor Systems
 CSCI-4380 Database Systems
 CSCI-4440 Software Dsg & Doc

SCIENCE ELECTIVE

BIOL-1010 Introduction to Biology
 BIOL-2120 Cell and Molecular Bio.
 CHEM-1100 Chemistry I