

To schedule an appointment with an academic advisor, please visit us at ECE.utah.edu/advising. ALL MAJOR CLASSES MUST BE LETTER GRADED | CR/NC IS **NOT** AN OPTION

Math/Science Core: 30 credits (min.)	Computer Science Core Courses: 15-19
Complete ONE of the following MATH Pathways:	Complete the following with a "C-" or higher:
Traditional Math: with a "C" or higher:	CS 1400 (4) – Object-oriented Programming (Java)
Math 1210(4.00)- Calculus I	AND
Math 1220(4.00)- Calculus II	CS 1410 (4) – Object-oriented Programming (Python)
Math 2210 (3.0)- Calculus III	[OR CS 1420 (4)- Object-oriented Programming (Java & Python)]
Math 2270 (4.00)- Linear Algebra and 2280 (4.00)- Differential Equations	cs 2420 (A) = Algorithms & Data Structures
(OR Math 2250 (4.00)- Differential Equations & Linear Algebra)	CS 2500 (4) = Algorithms & Data Structures
Engineering Math: with a "C" or higher:	CS 4400 (3) - Computer Systems
Math 1310 (4.00)- Calculus I	
Math 1320 (4.00)- Calculus II	
Math 2270 (4.00)- Linear Algebra and 2280 (4.00)- Differential Equations	Electrical Engineering Core Courses: 24 credits
(OR Math 2250 (4.00)- Differential Equations & Linear Algebra)	ECE 1220 (3) – Introduction to ECE/ Circuits & Systems
Additional Math/Sci Elective (3-4 credits):	ECE 1230 (2) – Circuits & Systems I Lecture
Math/Phys/Chem/Biol 1210 or higher level, CS 3200, or LS course	ECE 1235 (1)– Circuits & Systems I Lab
Complete the following with a "C" or higher	ECE 2280 (3) – Circuits & Systems II Lecture
Complete the following with a C- of higher:	ECE 2285 (1)- Circuits & Systems II Lab
PHTS 2210 (4.00)- Physics for Engineers 11 AB	CS/ECE 3700 (4) – Digital Design
PHVS 2220 (4.00)- Physics for Engineers II	CS/ECE 3710 (3) – Digital System Design Lab
PHYS 2225 (1.00) - Physics for Engineers II I AB	CS/ECE 5780 (4) – Embedded System Design
	CS/ECE 3810 (3) – Computer Organization
ECE 3530 OR CS 3130 (3.00)- Probability & Statistics	ETHICS- 1 course
CS 2100 (Discrete Structures, 3.00) <u>OR</u> MATH 2200 (Discrete Math, 3.00)	
<u>Writing Core: 3 - 6 credits</u>	
ECE 3030/3031 (3.00) – Technical Communications for Engineers	
<u>OR</u>	
HONOR 3200 (3.00)- Research University	
OR	
WRTG 3015 (3.00)-Professional Writing & COMM 1020 (3.00)-Public Speaking	

Capstone Experience: 7-9 credits

CS/ECE 3991 (1.0) – Junior Seminar

Computer Engineering Traditional Pathway: CS/ECE 3992 (3.0) – Pre-Thesis/Clinic CS/ECE 4710 (3.0) – Senior Project

HONORS Pathway: CS/ECE 4998 (4.0) – Senior Thesis I, Honors CS/ECE 4999 (4.0) – Senior Thesis II, Honors

<u>CLINIC Pathway:</u> ECE 4900 (4.0) – Senior Clinic I ECE 4910 (4.0) – Senior Clinic II

Technical Electives: 9 credits

Select CS OR ECE 3*** level or higher courses NOT used in your major requirements or core courses NOT on the exclusion list At least 3.00 credit hours each

Totaling 9 credit hours minimum- need 120.00 total

Additional T.E. Credit:

Complete courses to meet the 120 hour requirement additional technical electives (D- minimum):

- EX.) CS 1400, BIOL 1010, etc.
- Any ECE, CS, Engineering, Math, or Science class taken to count for a minor or certificate such as the Engineering Entrepreneurship courses, CS minor, Robotics minor, Systems Engineering certificate, PreMed track, etc.
- Any Engineering, Math, or Science, or HNKLY internship

General Education: 39-40 credits

American Institutions- 1 course
Writing 1 (WR1)- 1 course
WRTG 1010 or WRTG 1009, international students
WRTG 2 (WR2)- 1 course
WRTG 2010, ENGL 2010, ENGL 2211, or HONOR2211
*Quantitative Literacy (QL)- 1 course (Completed with required MATH course)
Humanities (HF)- 1 course
Fine Arts (FF)- 1 course (Completed with required Addt. Math/Sci Elective)
*Life Science (LS)- 1 course (Completed with required PHYS courses)
Social Science (BF)- 1 course
*Upper-Division Writing (CW)- 1 course (Completed w/ ECE 3030/ECE 3031)
Diversity (DV)- 1 course
International Requirement (IR)- 1 course (Recommended w/ ECE 1030)

Some requirements are fulfilled through major required courses

Departmental Requirements for Graduation

2.5 Cumulative GPA (all U of U courses) 2.5 Technical GPA (all U of U ECE and CS courses) Total degree hours: 120 minimum – Total Upper-Division hours: 40 minimum