

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

Pre-major requirements: 4 credits	Math/Science Core: 25 credits
MATH 1210/1310 (4.0) – Calculus I Cumulative GPA: 2.8 or higher	All students must complete: MATH 1220/1320 (4.0) – Calculus II
ADMISSION: Students should apply for admission to the B.S. Electrical Engineering program. Students will be Pre-Electrical Engineering Status until they have completed the pre-major requirements. When they are taking their final pre-Electrical course(s), they can apply for full major status by submitting an online application at ece.utah.edu/admissions Pre-major GPA: 2.8 or higher Cumulative GPA: 2.8 or higher	If students take MATH 1310/1320, then: Math 3140 (4.0) – PDEs and Vector Calculus If students take MATH 1210/1220, then: Math 2210 (3.0) – Calculus III Math 3150 (2.0) – Partial Differential Equations
TRANSFER CREDIT : Students who have transfer credit that may fulfill a B.S. Electrical Engineering requirement may petition for equivalency at ECE.utah.edu/transfer	All students must complete: MATH 2250 (4.0) – Differential Equations/Linear Algebra ECE 3530 (3.0) – Engineering Probability & Statistics PHYS 2210 (4.0) – Physics for Engineers I PHYS 2220 (4.0) Physics for Engineers II
Writing Core: 6 credits	
 WRTG 2010 (3.0) – Intermediate Writing Will accept Honor 2211 ECE 3030 (3.0) – Technical Communications Will accept Honor 3200 	Then choose one additional math/science elective. Valid electives include MATH, PHYS, CHEM, BIO classes (>1210 level) or CS 2100. Must have minimum of 29 credit hours of math and science.

Core Requirements: 27-31 credits

ECE 1900 (1.0) – Freshman Seminar ECE 1240 (4.0) – Circuits & Systems I ECE 1245 (0.5) – Circuits & Systems I Lab ECE 1050 (0.5) – MATLAB LEAP 1500 (3.0) – LEAP Seminar in Humanities LEAP 1501 (3.0) – Ethics in Engineering CS 1400 (4.0) & CS 1410 (4.0) –Intro to Computer Programming OR CS 1420 (4.0) – Accelerated Object-oriented Programming ECE 2240 (3.0) – Circuits & Systems II ECE 2245 (1.0) – Circuits & Systems II Lab ECE 2285 (1.0) – Circuits & Systems III ECE 3530 (3.0) – Engineering Probability & Statistics

Capstone Experience: 9 credits

ECE 3900 (1.0) – Junior Seminar ECE 4900 (4.0) – Senior Thesis I ECE 4910 (4.0) – Senior Thesis II

Breadth Electives: 15-16 credits

ECE 3110 (4.0) Engineering Electronics II

ECE 3200 (3.0) Semiconductor Devices

ECE 3300/3305 (4.0) Electromagnetics*

ECE 3510 (4.0) Intro Feedback Systems

ECE 3700 (4.0) Digital System Design*

* take 1 starred class to fulfill QI

electives below.

total 33 credits:

special topics

ECE 3810 (4.0) Computer Architecture*

ECE 3600 (4.0) Intro Electric Power Engineering

Breadth credit hours are included in technical

Technical Electives: 33 credits

Pick additional ECE 3000 level or higher classes to

Need 3 credit hours ECE 5000 level or higher
Includes breadth electives taken above
Up to 9 credit hours of approved non-ECE TE
Up to 8 credit hours of research and other

ECE 3500 (4.0) Signals and Systems*

General Education: 15-18 credits

American Institutions ECON 1740, HIST 1700 or POLS 1100

Fine Arts 1 (FF)

Fine Arts 2 (FF)

Humanities 1 (HF) Satisfied by LEAP 1500 (3.0)

Humanities 2 (HF)

Behavioral Science 1 (BF) Satisfied by LEAP 1501 (3.0)

Behavioral Science 2 (BF)

Diversity (DV) Satisfied by LEAP 1500 (3.0)

International Requirement (IR) * certain classes fulfill both IR and HF, FF or BF

- **Departmental Requirements** 2.5 Cumulative GPA (all U of U courses)
- 2.5 Technical GPA (all U of U ECE and CS courses)
 - Total degree hours: 122