

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-Computer Engineering Core: 27 credits | Writing Core: 3 credits |
|---|---|
| ECE 1240 (3) – Introduction to Circuit Design | ECE 3030 (3) – Technical Communications & Writing for Engineers |
| ECE 1245 (.5) – Introduction to Circuit Design Lab | Will accept HONOR 3200 |
| ECE 1050 (.5) – MATLAB for ECE Design | |
| PHYS 2210 (4) – Physics for Engineers I | |
| CS 1420 (4) – Object-Oriented Programming | |
| CS 2420 (4) – Algorithms & Data Structures | Math & Science Core: 17-18 credits |
| WRTG 2010 (3) – Intermediate Writing | |
| Must be completed with a "C-" or higher | If students take MATH 1310/1320, then choose one: |
| | Math 3140 (4) – PDEs and Vector Calculus |
| MATH 1210/1310 (4) – Calculus I | Math 5600 (4) – Survey of Numerical Analysis |
| MATH 1220/1320 (4) – Calculus II | CS 3200 (3) – Scientific Computing |
| Must be completed with a "C" or higher | ECE 3740 (3) – Quantum Theory & Relativity |
| | CHEM 1210 (4) – General Chemistry I |
| <u>ADMISSION</u> : Students should apply for admission to the B.S. Computer Engineering program when they are taking their final pre-CE course(s) by | BIOL 1610 (4) – Fundamental Principles of Biology I |
| submitting an online application at ece.utah.edu/admissions | If students take MATH 1210/1220, then: |
| Pre-Major GPA: 3.0 or higher | Math 2210 (3.0) – Calculus III |
| Cumulative GPA: 2.5 or higher | |
| | All students must complete: |
| TRANSFER CREDIT: Students who have transfer credit that may fulfill a B.S. | MATH 2250 (4) – Differential Equations/Linear Algebra |
| Computer Engineering requirement may petition for equivalency at | PHYS 2220 (4) – Physics for Engineers II |
| ECE.utah.edu/transfer | CS 2100 (3) – Discrete Structures |
| | ECE 3530 (3) – Engineering Probability & Statistics |

Major Requirements: 39 credits

LEAP 1501 (3) – Ethics in Engineering CS 1420 (4) – Object-Oriented Programming ECE 1900 (1) – Freshman Seminar (Intro to ECE) ECE 2240 (3) – Intro to Electric Circuits ECE 2245 (1) – Intro to Electric Circuits Lab ECE 2280 (3) – Fundamentals of Engineering Electronics ECE 2285 (1) – Fundamentals of Engineering Electronics Lab CS 3500 (3) – Software Practice CS 4400 (4) – Computer Systems CS/ECE 3700 (4) – Digital System Design CS/ECE 3710 (4) – Computer Design Lab CS/ECE 5780 (4) – Embedded System Design CS/ECE 3810 (4) – Computer Organization

Capstone Experience: 7-9 credits

CS/ECE 3991 (1) – Junior Seminar CS/ECE 3992 (3) – Pre-Thesis/Clinic

CS/ECE 4710 (3) – Senior Project or CS/ECE 4991 (2) – Senior Thesis I CS/ECE 4992 (3) – Senior Thesis II or ECE 4900 (2) – Senior Clinic I ECE 4910 (3) – Senior Clinic II

Advanced Technical Electives: 18 credits

Select CS/ECE 3xxx or higher courses totaling 18 credits EAE classes are **<u>not</u>** permitted

General Education: 18-24 credits

American Institutions (AI) ECON 1740 US Economic History HIST 1700 American History or POLS 1100 U.S. National Government

Fine Arts 1 (FF) Fine Arts 2 (FF)

Humanities 1 (HF) Humanities 2 (HF)

Behavioral Science 1 (BF) Satisfied by LEAP 1501 Behavioral Science 2 (BF)

Diversity Requirement (DV)

International Requirement (IR)

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: 127-136