



College of Engineering
Utah State University

- The following is a sample 4-year plan. Please note that student-specific plans may differ. Consult with your academic advisor for your specific plan.
- For more information on major requirements and technical elective courses, go to catalog.usu.edu and select "Degree Maps."
- Plan designed for students working less than 20 hours per week.

PRE-PROFESSIONAL PROGRAM

FRESHMAN FALL

COURSE	CR ⁺	SEM ⁺
ECE 1400* Computer Programming 1	4	FSpSu
MATH 1210* Calculus 1	4	FSpSu
GENERAL EDUCATION Breadth Course (BHU)	3	FSpSu
GENERAL EDUCATION Breadth Course (BAI)	3	FSpSu
GENERAL EDUCATION Breadth Course (BCA)	3	FSpSu
TOTAL CREDITS	17	

FRESHMAN SPRING

COURSE	CR ⁺	SEM ⁺
ECE 1410* Computer Programming 2	3	FSpSu
MATH 1220* Calculus 2	4	FSpSu
ECE 2700* Digital Circuits	4	FSp
PHYS 2210* Physics 1	4	FSpSu
PHYS 2215* Physics 1 Lab	1	FSpSu
TOTAL CREDITS	16	

SOPHOMORE FALL

COURSE	CR ⁺	SEM ⁺
CS 2420* Algorithms & Data Structures	3	FSp
ECE 2250* Electrical Circuits 1	3	FSp
ENGL 2010 Intermediate Writing	3	FSpSu
MATH 2270* Linear Algebra	3	FSp
PHYS 2220* Physics 2	4	FSpSu
PHYS 2225* Physics 2 Lab	1	FSpSu
TOTAL CREDITS	17	

SOPHOMORE SPRING

COURSE	CR ⁺	SEM ⁺
ECE 3700 Digital System Design	3	Sp
ECE 2290* Electrical Circuits 2	3	FSp
MATH 2280* Differential Equations	3	FSp
MATH/SCIENCE ELECTIVE <i>See approved list</i>	3	FSp
GENERAL EDUCATION Breadth Course (BLS)	3	FSpSu
TOTAL CREDITS	15	

PROFESSIONAL PROGRAM

JUNIOR FALL

COURSE	CR ⁺	SEM ⁺
ECE 3620 Continuous Time Systems	3	F
ECE 3710 Microcontrollers	4	F
ECE 5720 Comp. Sys. Programming	3	F
MATH 3310 Discrete Mathematics	3	FSp
GENERAL EDUCATION Depth Course (DSS)	3	FSpSu
TOTAL CREDITS	16	

JUNIOR SPRING

COURSE	CR ⁺	SEM ⁺
ECE 3410 Microelectronics 1	4	Sp
ECE 3810 Engineering Professionalism	1	FSp
ENGR 3080 Technical Communication	3	FSp
STAT 3000 or MATH 5710 Statistics or Probability	3	FSpSu
TECHNICAL ELECTIVE Core Comp. Engr. Elective	3	FSp
TOTAL CREDITS	14	

SENIOR FALL

COURSE	CR ⁺	SEM ⁺
ECE 4820 Computer Engr. Design 1	1	FSp
ECE 4830 Engineering Comm. 1	1	FSp
ECE 5600 Intro. to Computer Networks	3	F
TECHNICAL ELECTIVE High Level Elective	3	FSp
TECHNICAL ELECTIVE Core Comp. Engr. Elective	3	FSp
TECHNICAL ELECTIVE Core Comp. Engr. Elective	3	FSp
GENERAL EDUCATION Breadth Course (BSS)	3	FSpSu
TOTAL CREDITS	17	

SENIOR SPRING

COURSE	CR ⁺	SEM ⁺
ECE 4840 Computer Engr. Design 2	2	FSp
ECE 4850 Engineering Comm. 2	1	FSp
TECHNICAL ELECTIVE High Level Elective	3	FSp
TECHNICAL ELECTIVE Core Comp. Engr. Elective	3	FSp
TECHNICAL ELECTIVE High Level Elective	3	FSp
GENERAL EDUCATION Depth Course (DHA)	2	FSpSu
TOTAL CREDITS	14	

TOTAL CREDITS REQUIRED **126**

UNIVERSITY REQUIREMENTS

English 1010 is a University requirement and is a prerequisite for English 2010. An English ACT score of 29+ or an SAT verbal score of 640+ will fulfill the English 1010 requirement.

PRE-PROFESSIONAL PROGRAM (PPRU) REQUIREMENTS

- Complete courses marked with an asterisk (*)
- No more than three total repeats for PPRU courses
- Minimum 2.8 PPRU GPA
- Minimum grade of C- for PPRU courses
- Must pass Java competency test for CS 2420.

PROFESSIONAL PROGRAM (PP) REQUIREMENTS

- No more than three total repeats for Professional Program courses
- Minimum 2.0 Professional GPA
- Up to 10 "D" credits are allowed (all other grades must be a C- or better)
- 1 High Level Technical Elective course must have an ECE prefix.

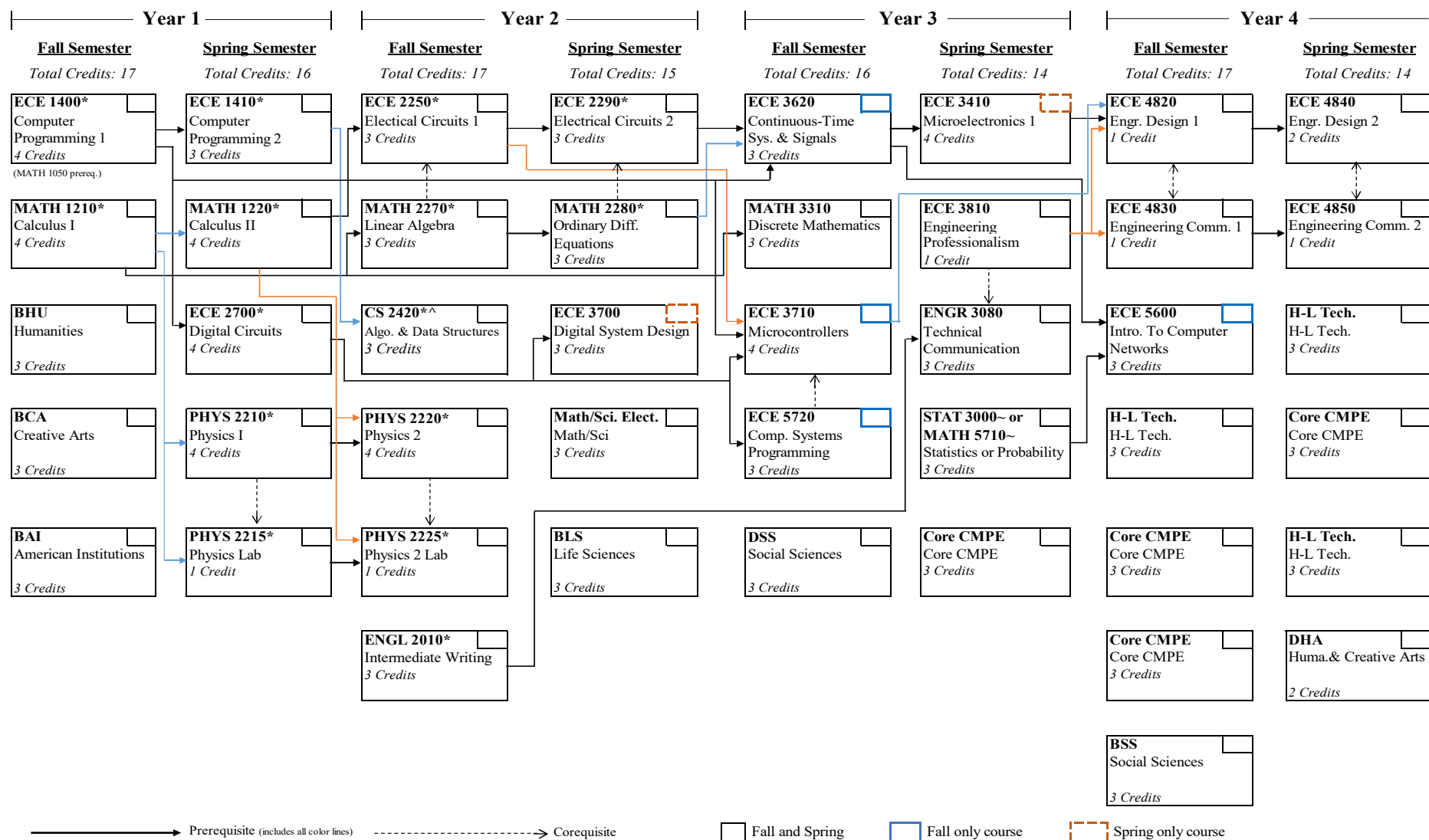
⁺ Abbreviations: (CR) Credits • (SEM) Semester • (F) Fall • (Sp) Spring • (Su) Summer

ACADEMIC YEAR
2023-24



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Any discrepancy between this chart and the 2023-24 General Catalog is resolved in favor of the General Catalog.



* Required for admission to Professional Program.

^ Apply for Professional Program after Year 2

^ Must pass Java competency exam.

~ See general catalog for prerequisites to STAT 3000 and MATH 5710

ACADEMIC YEAR
2023-24