

## **B.S. Computer Engineering**

with Minor in Computer Science \*\*

2025-2026 Academic Year

Year 1		Year 2		Year 3		Year 4	
Fall (16 hrs)	Spring (16 hrs)	Fall (14 hrs)	Spring (13 hrs)	Fall (16 hrs)	Spring (17 hrs)	Fall (16 hrs)	Spring (12 hrs)
ECE 1000 *	ECE 2700 *	ECE 3710	ECE 2250 *	ECE 3760	ECE 4730	ECE 4700	ECE 4800
Intro to Electrical and Computer Engineering 3 Credits. Offered F, Sp, Su Req: MATH 1060 or higher	Digital Design I 3 Credits. Offered F, Sp, Su Req: MATH 1210, ECE 1000	Applied Prob. & statistics 3 Credits. Offered F, Sp, Su Req: MATH 1210	Circuit Theory  3 Credits. Offered F, Sp, Su Req: MATH 1210, PHYS 2220, ECE 1000	Electronic Systems 3 Credits. Offered F, Sp Req: PHYS 2220, ECE 2250	Embedded Systems II 3 Credits. Offered Sp Req: ECE 3730, 3740	Computer Architecture  3 Credits. Offered F  Req: ECE 3740	CE Senior Design Project 3 Credits. Offered F, Sp Req: ECE 3740
CS 1400 *	ECE 2705 *	ECE 2750	ECE 2255 *	ECE 3765	ECE 4750	ECE 4760	CE Elective II
Fundamentals of Programming 3 Credits. Offered F, Sp, Su Req: MATH 1010 or higher	Digital Design I Lab  1 Credit. Offered F, Sp, Su  CoReq: ECE 2705	Engineering Analysis  3 Credits. Offered F, Sp  Req: MATH 1220, ECE 1000	Circuit Theory Lab  1 Credit. Offered F, Sp, Su  CoReq: ECE 2250	Electronic Systems Lab  1 Credit. Offered F, Sp  CoReq: ECE 3760	Digital Signal Processing  3 Credits. Offered F, Sp  Req: ECE 3710, 3770	VLSI Design 3 Credits. Offered F Req: ECE 3760	Select any 3-credit course above CS 3060 or ECE 4780 or (Any of the courses defined for ECE Elective I if you have not taken as ECE Elective I
MATH 1210 *	MATH 1220 *	PHYS 2220 *	ECE 3740	ECE 3730	ECE 4755	ECE 4765	CS 3060
Calculus I  4 Credits. Offered F, Sp, Su  Req: MATH 1050, 1060, or 1080	Calculus II  4 Credits. Offered F, Sp, Su  Req: MATH 1210	Physics for Scientists and Engineers II 4 Credits. Offered F, Sp, Su Req: PHYS 2210 and MATH 1220	Digital Design II  3 Credits. Offered F, Sp  Req: ECE 2700	Embedded Systems I 3 Credits. Offered F, Sp Req: ECE 2700, 2250	Digital Signal Processing Lab 1 Credit. Offered F, Sp	VLSI Design Lab  1 Credit. Offered F Req: ECE 3765 CoReq: ECE 4760	Operating Systems Theory 3 Credits. Offered F, Sp, Su Req: ECE 2700, ECE 3730
American Institutions Elective 3 Credits.	PHYS 2210 * Physics for Scientists and Engineers I 4 Credits. Offered F, Sp, Su Req: MATH 1210 or PHYS 1100	PHYS 2225 * Physics for Scientists and Engineers II Lab 1 Credit. Offered F, Sp, Su CoReq: PHYS 2220	CS 2370 C++ Programming 3 Credits. Offered F, Sp Req: CS 1410	ECE 3770 Signals and Systems 3 Credits. Offered F, Sp Req: ECE 2750	CE Elective I  Select a 4 credits course from CS (above CS 3060) or ECE 4810R or ECE 3250 or ECE 3350 or (ECE 3780 and ECE 3785)	Humanities Elective (COMM 1020 Recommended)	Social and Behavioral Sci. (COMM 2110 Recommended) 3 Credits. Offered F, Sp, Su
ENGL 1010	PHYS 2215 *	CS 1410		CS 2300	ECE 4850		
Introduction to Academic Writing 3 Credits. Offered F, Sp, Su Req: Test	Physics for Scientists and Engineers I Lab 1 Credit. Offered F, Sp, Su CoReq: PHYS 2210	Object Oriented Programming 3 Credits. Offered F, Sp, Su Req: CS 1400, MATH above 1050	Physical Science 3 Credits.	Discrete Math Structures    3 Credits. Offered F, Sp, Su   Req: MATH 1050, CS 1410	Machine Learning  3 Credits. Offered Sp Req: CS 1400, (ECE 3710 or STAT 2050)	Biology Elective 3 Credits.	
	Intermediate Academic Writing 3 Credits. Offered F, Sp, Su			CS 2420 Intro to Algorithms and Data Structures 3 Credits. Offered F, Sp, Su	Personal, Professional, and Civic Growth 3 Credits. Offered F, Sp, Su	Fine Arts Elective 3 Credits.	
	Req: ACT Test or ENGL 1010			Req: CS 1410			1
Program Admission (Matriculation)  • Complete * foundation courses with C or higher		Graduation requirements     Complete 120 hrs (40 of which are upper division CE)		Complete ≥10 hrs in ECE for the most recent 45 hrs		Minoring in CS  ** Students may minor in	Color Key Matriculation Regs: Green

- Complete \* foundation courses with C or higher
- GPA ≥ **2.5**
- Submit Matriculation application to Dept.
- Complete 120 hrs (40 of which are upper division CE)
- Complete ECE core and elective courses with C or higher
- Residency (≥30 hrs at UVU and ≥12 hrs in CE)
- Complete ≥10 hrs in ECE for the most recent 45 hrs
- Transfer credits <80 hrs total, and <20 hrs in ECE
- Complete one Global/Intercultural course and one WE course

\*\* Students may minor in CS if two elective courses from CS 3100 or above are taken.

Matriculation Regs: Green CE Core: Yellow General Ed: Grey