UVU
ELECTRICAL AND COMPUTER ENGINEERING

B.S. Electrical Engineering

with optional Minor in Computer Engineering**

2026-2027 Academic Year

UTAH VALLEY UVU UNIVERSITY

Year 1		Year 2		Year 3		Year 4	
Fall (15 hrs)	**Spring** (15 hrs)	**Fall** (16 hrs)	**Spring** (15 hrs)	**Fall** (16 hrs)	**Spring** (16 hrs)	**Fall** (16 hrs)	**Spring** (13 hrs)
ECE 1000 * Intro to Electrical and Computer Engineering 3 Credits. Offered F, Sp Req: MATH 1060 or higher	**CS 1400 *** Fundamentals of Programming 3 Credits. Offered F, Sp, Su Req: MATH 1010 or higher	**ECE 2700 *** Digital Design I 3 Credits. Offered F, Sp Req: MATH 1210, ECE 1000 **ECE 2705 *** Digital Design I Lab 1 Credit. Offered F, Sp CoReq: ECE 2705	**ECE 2250 *** Circuit Theory 3 Credits. Offered F, Sp Req: MATH 1210, PHYS 2220, ECE 1000 **ECE 2255 *** Circuit Theory Lab 1 Credit. Offered F, Sp CoReq: ECE 2250	**ECE 3760** Electronic Systems 3 Credits. Offered F, Sp Req: PHYS 2220, ECE 2250 **ECE 3765** Electronic Systems Lab 1 Credit. Offered F, Sp CoReq: ECE 3760	**ECE 4730** Embedded Systems II 3 Credits. Offered Sp Req: ECE 3730, 3740 **ECE 3250** Energy Conversion 3 Credits. Offered Sp Req: ECE 2250	**ECE 4700** Computer Architecture 3 Credits. Offered F, Sp Req: ECE 3740 **ECE 4760** VLSI Design 3 Credits. Offered F Req: ECE 3760 **ECE 4765** VLSI Design Lab 1 Credit. Offered F Req: ECE 3765 CoReq: ECE 4760	**ECE 3450** Electromag. & Trans. Lines 3 Credits. Offered Sp Req: PHYS 2220, ECE 2250 **EE Elective II** 3 Credits
MATH 1210 * Calculus I 4 Credits. Offered F, Sp, Su Req: MATH 1050, 1060, or 1080	**MATH 1220 *** Calculus II 4 Credits. Offered F, Sp, Su Req: MATH 1210	**PHYS 2220 *** Physics for Scientists and Engineers II 4 Credits. Offered F, Sp, Su Req: PHYS 2210 **PHYS 2225 *** Physics for Scientists and Engineers II Lab 1 Credit. Offered F, Sp, Su CoReq: PHYS 2220	**ECE 3710** Applied Prob. & statistics 3 Credits. Offered F, Sp, Su Req: MATH 1210 **ECE 2750** Engineering Analysis 3 Credits. Offered F, Sp Req: MATH 1220, ECE 1000	**ECE 3730** Embedded Systems I 3 Credits. Offered F, Sp Req: ECE 2700, ECE 2250 **ECE 3770** Signals and Systems 3 Credits. Offered F, Sp Req: ECE 2750, ECE 2250	**ECE 3780** Comm. Systems & Circuits 3 Credits. Offered Sp Req: ECE 3770, ECE 3710 **ECE 3785** Comm. Systems & Circuits Lab 1 Credit. Offered Sp CoReq: ECE 3780	**EE Elective I** 3 Credits.	**ECE 4750** Digital Signal Processing 3 Credits. Offered F, Sp Req: ECE 3710, 3770 **ECE 4755** Digital Signal Processing Lab 1 Credit. Offered F, Sp CoReq: ECE 4750
CHEM 1210 Principles of Chemistry I 4 Credits. Offered F, Sp, Su Req: MATH 1080, MATH 1055, Math 1050 **CHEM 1215** Principles of Chemistry I Lab 1 Credit. Offered F, Sp, Su CoReq: CHEM 1210	**PHYS 2210 *** Physics for Scientists and Engineers I 4 Credits. Offered F, Sp, Su Req: MATH 1210 or PHYS 1100 **PHYS 2215 *** Physics for Scientists and Engineers I Lab 1 Credit. Offered F, Sp, Su CoReq: PHYS 2210	**MATH 2210** Calculus III 4 Credits. Offered F, Sp, Su Req: MATH 1220	**GE Health Elective** 2 Credits.	**ECE 3740** Digital Design II 3 Credits. Offered F, Sp Req: ECE 2700	**ECE 3350** Control Systems 3 Credits. Offered Sp Req: ECE 2750, ECE 3770	**ECE 4900***** Electrical and Computer Engineering Capstone 3 Credits. Offered F, Sp Req: ECE 4730 and University Advanced Standing	
ENGL 1010 Introduction to Academic Writing 3 Credits. Offered F, Sp, Su Req: Test	**ENGL 2010** Intermediate Academic Writing 3 Credits. Offered F, Sp, Su Req: ACT Test or ENGL 1010	**Biology Elective** 3 Credits.	**GE American Institutions Elective** 3 Credits.	**Fine Arts Elective** 3 Credits.	**Humanities Elective (COMM 1020 Recommended)** 3 Credits.	**Interpersonal Communication** COMM 2110 3 credits	**Personal, Professional, and Civic Growth** 3 Credits.

Program Admission (Matriculation)

Complete * foundation courses with C or higher
GPA ≥ 2.5
Submit Matriculation application to Dept.

Graduation requirements

Complete 122 hrs (40 of which are upper division credits)
GPA ≥2.5
Complete all discipline core and elective requirements with C or higher
Residency (≥32 hrs at UVU and 10 of these hours must be within the last 45 hours earned). At least 12 of the credit hours earned in residence must be in approved CS + ECE courses.
Transfer credits < 80 hrs total, and < 20 hrs in CS and ECE courses.
Complete one Golabal / Intercultural course. Complete two Writing Enriched (WE) courses. *** WE Courses.

Minoring in CE

** Students can receive a minor in CE by taking CS 1410.

Color Key

- Matriculation Requirements
- Electreical Engineering Core
- General Education