

BS COMPUTER ENGINEERING

2021-2022 Academic Year

Year 1		Year 2		Year 3		Year 4	
Fall (17 hrs)	Spring (17 hrs)	Fall (15 hrs)	Spring (15 hrs)	Fall (15 hrs)	Spring (17 hrs)	Fall (15 hrs)	Spring (15 hrs)
MATH 1010 or higher CS 1400* Fund. of Programming 3 hr F,S,Su	MATH 1050 or 1055 ECE 2700* Digital Design I 3 hr F,S	CS 1400 CS 1410* Object-Oriented Programming 3 hr F,S, Su	ECE 2700 ECE 3740 Digital Design II 3 hr F,S	MATH 1210 ECE 3710 Applied Engineering Probability & Statistics 3 hr F,S,Su	ECE 3730 ECE 4730 Embedded Systems II 3 hr S	ECE 3730 ECE 4900 EE & CE Capstone I 3 hr F	ECE 4900 ECE 4950 EE & CE Capstone II 3 hr S
MATH 1060 or higher ECE 1000* Intro. to EE and CE 3 hr F,S	ECE 2705* Digital Design I Lab 1 hr F,S	MATH 1210, PHYS 2210, ECE 1000 ECE 2250* Circuit Theory 3 hr F,S	CS 1410 CS 2420* Intro. to Algorithms and Data Structures 3 hr F, S, Su	ECE 2700, ECE 2250 ECE 3730 Embedded Systems I 3 hr F, S	ECE 3770, ECE 3710 ECE 4750 Digital Signal Processing 3 hr F, S	ECE 3760 ECE 4760 VLSI Design 3 hr F	See Catalog CE Elective 3 hr S
MATH 1050, 1060 or 1065 MATH 1210* Calculus I 5 hr F,S,Su	MATH 1210 MATH 1220* Calculus II 5 hr F,S,Su	ECE 2255* Circuit Theory Lab 1 hr F,S	PHYS 2220, ECE 2250 ECE 3760 Electronic Systems 3 hr F,S	ECE 3750 ECE 3770 Signals & Systems 3 hr F, S	ECE 4755 Digital Signal Processing Lab 1 hr F, S	ECE 4765 VLSI Design Lab 1 hr F	PHYS 2220, ECE 2250 CS 3060 Operating Systems Theory 3 hr F, S
GE American Institutions Elective 3 hr	MATH 1210 PHYS 2210* Physics I 4 hrs F,S,Su	MATH 1220, ECE 1000 ECE 3750 Engineering Analysis 3 hr F,S	ECE 3765 Electronic Systems Lab 1 hr F,S	MATH 1050, CS 1410 CS 2300 Discrete Structures I 3 hr F,S,Su	ECE 3770, ECE 3710 ECE 3780 Communication Systems 3 hr S	ECE 3740 ECE 4700 Computer Arch. 3 hr F, S	
PRE-REQS., CO-REQS. CATALOG#### Course Title Credit hr F,S	PHYS 2215* Physics I Lab 1 hr F,S,Su	PHYS 2210, MATH 1220 PHYS 2220* Physics II 4 hr F,S,Su	MATH 1050 CHEM 1210* Principles of Chemistry 4 hr F,S,Su	CS 1410 CS 2370 C++ Programming 3 hr F,S	ECE 3785 Communication Systems Lab 1 hr S		COMM 2110 Interpersonal Communication 3 hr F,S,Su
Test or ENGH 1005 ENGL 1010 Introduction to Writing 3 hr F,S,Su	Test or ENGL 1010 ENGL 2010 Intermediate Writing 3 hr F,S,Su	PHYS 2225* Physics II Lab 1 hr F,S,Su	CHEM 1215* Principles of Chemistry Lab 1 hr F, S, Su		GE Biology Elective 3 hr	GE Health Elective 2 hr	COMM 2110 Interpersonal Communication 3 hr F,S,Su
					COMM 1020 Public Speaking 3 hr F,S,Su	GE Fine Arts Elective 3 hr	PHIL 205G Ethics and Values 3 hr F,S,Su

- Program Admission:**
- Complete foundation courses* with minimum grade of **C**
 - Overall GPA ≥ 2.5
 - Submit application to Department.
- Graduation:**
- Complete 126 hrs total with 40 hrs upper division CE.
 - Overall GPA ≥ 2.5
 - C or better in ECE core and elective courses.
 - Residency ≥ 30 hrs at UVU (≥12 CE). At least 10 hrs in last 45 hrs earned.
 - Transfer credits < 80 hrs total and 20 hrs in ECE.
 - Complete one Global/Intercultural course.
 - Take FE Exam

Shading Key:
 Blue = Math core
 Yellow = Science Core
 Grey = General Education