

BS COMPUTER ENGINEERING

2019-2020 Academic Year

	Year 1		Year 2		Year 3		Year 4	
	Fall (15 hrs)	Spring (16 hrs)	Fall (15 hrs)	Spring (15 hrs)	Fall (16 hrs)	Spring (16 hrs)	Fall (15 hrs)	Spring (18 hrs)
	MATH 1010 or higher CS 1400* Fund. of Programming 3 hr F,S,Su	CS 1400 CS 1410* Object Oriented Programming 3 hr F,S,Su	CS 1410 CS 2420* Intro. To Algorithms and Data Structures 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	CS 2420, CS 2810 CS 3060 Operating Systems Theory 3 hr F,S	CS 3060 ECE 4380 Adv. High-Perf. Computer Arch. 3 hr F,S	ECE 3740 ECE 4800 CE Senior Design Project 3 hr F,S
	MATH 1050 or higher ECE 1020* Fund. of Programming 1 hr F,S,Su	CS 1400 CS 2810* Computer Org. & Arch. 3 hr F,S,Su	MATH 1050 or 1055 ECE 2700* Digital Design I 3 hr F,S	ECE 3750 ECE 3770* Signals & Systems 3 hr F,S	ECE 3750 ECE 3730 Embedded Systems I 3 hr F	ECE 3730 ECE 4730 Embedded Systems II 3 hr 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 2705* Digital Design I Lab 1 hr F,S	PHYS 2210 ECE 2250* Circuit Theory 3 hr F,S	ECE 2700 COMP 301R Digital Lecture Series 1 hr F,S	PHYS 2220, ECE 2250 ECE 3760 Electronic Systems 3 hr F,S	ECE 4765 VLSI Design Lab 1 hr F	PHYS 2220, ECE 2250 CS 2450 Software Engineering 3 hr F,S
	GE American Institutions Elective 3 hr	MATH 1210 PHYS 2210* Physics I 4 hrs F,S,Su	MATH 1220 ECE 1020 ECE 3750 Engineering Analysis 3 hr F,S	ECE 2255* Circuit Theory Lab 1 hr F,S	CS 1410, MATH 1050 CS 2300 Discrete Structures I 3 hr F,S,Su	ECE 3760 Electronic Systems 3 hr F,S	ECE 3770 ECE 4750 Digital Signal Processing 3 hr F	CS 1400 CS 305G Global Social & Ethical Issues in Computing 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 2810 CS 2600 Computer Networks I 3 hr F,S	ECE 3765 Electronic Systems Lab 1 hr F,S	GE Biology Elective 3 hr	COMM 2110 Interpersonal Communication 3 hr F,S,Su
	Test or ENGH 1000 ENGL 1010 Introduction to Writing 3 hr F,S,Su	PHYS 2215* Physics I Lab 1 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	Test or ENGL 1010 ENGL 2010 Intermediate Writing 3 hr F,S,Su	GE Health Elective 2 hr	GE Fine Arts Elective 3 hr	PHIL 2050 Ethics and Values 3 hr F,S,Su
						GE Biology Elective 3 hr	GE Health Elective 2 hr	
						COMM 1020 Public Speaking 3 hr F,S,Su	GE Fine Arts Elective 3 hr	
								PHIL 2050 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 EE.
- Overall GPA ≥ 2.5
- C or better in ECE core and elective courses.
- Residency > 30 hrs at UVU (≥12 EE). 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