

# BS ELECTRICAL ENGINEERING

## 2022-2023 Academic Year

**Program Admission:**

- Complete foundation courses\* with minimum grade of **C**
- Overall GPA  $\geq 2.5$
- Submit application to Department.

**Graduation:**

- Complete 126 hrs total with 40 hrs upper division EE.
- Overall GPA  $\geq 2.5$
- C or better in EE core and elective courses.
- Residency  $\geq 30$  hrs at UVU ( $\geq 12$  EE). At least 10 hrs in last 45 hrs earned.
- Transfer credits  $< 80$  hrs total and 20 hrs in EE.
- Complete one Global/Intercultural course.
- Take FE Exam

PRE-REQS.,  
CO-REQS.

CATALOG #####  
Course Title  
  
Credit hr F,S

Shading Key:  
 Blue = Math core  
 Yellow = Science Core  
 Grey = General Education  
 White = EE Admission Required

Year 1		Year 2		Year 3		Year 4	
Fall (16 hrs)	Spring (16 hrs)	Fall (15 hrs)	Spring (15 hrs)	Fall (16 hrs)	Spring (16 hrs)	Fall (16 hrs)	Spring (16 hrs)
MATH 1060 or higher <b>ECE 1000*</b> Introduction to Elec. & Comp. Engineering 3 hr F,S	MAT 1010 or higher <b>CS 1400*</b> Fund. of Programming 3 hr F,S,Su	MATH 1050 or 1055 <b>ECE 2700*</b> Digital Design I 3 hr F,S	MATH 1220, ECE 1000 <b>ECE 2750</b> Engineering Analysis 3 hr F,S	ECE 2750 <b>ECE 3770</b> Signals and Systems 3 hr F,S	ECE 2250 ECE 3770 <b>ECE 3350</b> Control Systems 3 hr S	ECE 4730 <b>ECE 4900</b> EE Capstone I 3 hr F	ECE 4900 <b>ECE 4950</b> EE Capstone II 3 hr S
		ECE 2705* Digital Design I Lab 1 hr F,S	MATH 1210 <b>ECE 3710*</b> Applied Prob. & Statistics 3 hr F,S,Su	ECE 2700, ECE 2250 <b>ECE 3730</b> Embedded Systems I 3 hr F,S	ECE 3730 ECE 3740 <b>ECE 4730</b> Embedded Systems II 3 hr S	ECE 3740 <b>ECE 4700</b> Computer Arch. 3 hr F,S	See Catalog <b>EE Elective</b> 3 hr
MATH 1050, 1060 or 1065 <b>MATH 1210*</b> Calculus I 4 hr F,S,Su	MATH 1210 <b>MATH 1220*</b> Calculus II 4 hr F,S,Su	MATH 1220 <b>MATH 2210*</b> Calculus III 4 hr F,S,Su	PHYS 2210, ECE 1000 <b>ECE 2250*</b> Circuit Theory 3 hr F,S	ECE 2700 <b>ECE 3740</b> Digital Design II 3 hr F,S	ECE 2250 <b>ECE 3250</b> Energy Conversion 3 hr S	See Catalog <b>EE Elective</b> 3 hr	PHYS 2220, ECE 2250 <b>ECE 3450</b> Electromag. & Trans. Lines 3 hr S
MATH 1050 <b>CHEM 1210</b> Principles of Chemistry I 4 hr F,S,Su	MATH 1210 <b>PHYS 2210*</b> Physics I 4 hrs F,S,Su	PHYS 2225, MATH 1220 <b>PHYS 2220*</b> Physics II 4 hr F,S,Su	ECE 2250* Circuit Theory Lab 1 hr F,S	PHYS 2220, ECE 2250 <b>ECE 3760</b> Electronic Systems 3 hr F,S	ECE 3770 ECE 3710 <b>ECE 3780</b> Comm. Systems & Circuits 3 hr S	ECE 3760 <b>ECE 4760</b> VLSI Design 3 hr F	ECE 3710, ECE 3770 <b>ECE 4750</b> Digital Signal Processing 3 hr F,S
<b>CHEM 1215</b> Principles of Chemistry I Lab 1 hr F,S,Su	<b>PHYS 2215*</b> Physics I Lab 1 hr F,S,Su	<b>PHYS 2225*</b> Physics II Lab 1 hr F,S,Su	<b>ECE 2255*</b> Circuit Theory Lab 1 hr F,S	<b>ECE 3765</b> Electronic Systems Lab 1 hr F,S	<b>ECE 3785</b> Comm. Systems & Circuits Lab 1 hr S	<b>ECE 4765</b> VLSI Design Lab 1 hr F	<b>ECE 4755</b> Digital Signal Processing Lab 1 hr F,S
Test or ENGH 1000 <b>ENGL 1010</b> Introduction to Writing 3 hr F,S,Su	Test or ENGL 1010 <b>ENGL 2010</b> Intermediate Writing 3 hr F,S,Su	<b>GE Biology Elective</b> 3 hr	<b>GE Health Elective</b> 2 hr	<b>GE American Institutions Elective</b> 3 hr	<b>GE Fine Arts Elective</b> 3 hr	<b>COMM 1020</b> Public Speaking 3 hr F,S,Su	<b>COMM 2110</b> Interpersonal Communication 3 hr F,S,Su
						<b>COMM 2110</b> Interpersonal Communication 3 hr F,S,Su	<b>PHIL 205G</b> Ethics and Values 3 hr F,S,Su