

# BS CIVIL ENGINEERING

## 2020-2021 Academic Year

### Pre-Engineering

### Civil Engineering

#### 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 CIVE.
- Overall GPA  $\geq 2.5$
- C or better in CIVE core and elective courses.
- Residency  $\geq 30$  hrs at UVU ( $\geq 12$  CIVE). At least 10 hrs in last 45 hrs earned.
- Transfer credits  $< 80$  hrs total and 20 hrs in CIVE.
- 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
- Green = Pre-Engineering
- Grey = General Education
- White = CIVE Admission Required
- Red = Option of Physics or Chemistry

Pre-Engineering				Civil Engineering			
Year 1		Year 2		Year 3		Year 4	
Fall (16 hrs)	Spring (16 hrs)	Fall (15 hrs)	Spring (17 hrs)	Fall (15 hrs)	Spring (16 hrs)	Fall (15 hrs)	Spring (15 hrs)
MATH 1060 or higher <b>ENGR 1000*</b> Introduction to Engineering 3 hr F,S	<b>EGDT 1040*</b> Fun. Of Tech. Eng. Drawing 3 hr F,S	PHYS 2210 <b>ENGR 2010*</b> Engineering Statics 3 hr F,S	ENGR 2010 <b>ENGR 2030*</b> Engineering Dynamics 3 hr F,S	MATH 2250 <b>ENGR 2450</b> Computational Methods 3 hr F,S	ENGR 2140 <b>CIVE 3210</b> Geotechnical Engineering 3 hr S	Dept. Approval <b>CIVE 4810</b> Capstone I 3 hr F	<b>CIVE 4820</b> Capstone II 3 hr S
MATH 1050, 1060 or 1065 <b>MATH 1210*</b> Calculus I 5 hr F,S,Su	<b>MATH 1210</b> <b>MATH 1220*</b> Calculus II 5 hr F,S,Su	<b>ENVT 1110*</b> Intro to Env. Mgt. 3 hr F,S,Su	ENGR 2010 <b>ENGR 2140*</b> Mechanics of Materials 3 hr F,S	ENGR 2450 <b>CIVE 3010</b> Transportation Engineering 3 hr F	ENGR 2450, ME 3310 <b>CIVE 3320</b> Hydraulics & Hydrology 3 hr S	<b>CIVE 4810</b> <b>CIVE 4510</b> CE Senior Seminar 1 hr F	See Catalog <b>CIVE Elective</b> 3 hr
MATH 1050 <b>CHEM 1210*</b> Chemistry I <b>CHEM 1215*</b> Chemistry I Lab 4+1 hr F,S,Su	MATH 1210 <b>PHYS 2210*</b> Physics I <b>PHYS 2215*</b> Physics I Lab 4+1 hr F,S,Su	MATH 1220 <b>MATH 2250*</b> ODEs and Linear Algebra 4 hr	MATH 1220 <b>MATH 2210*</b> Calculus III 3 hr F,S,Su	ENGR 2140 <b>CIVE 3130</b> Structural Analysis 3 hr F	<b>CIVE 3320</b> <b>CIVE 3335</b> Civil Eng. Experiment. I 2 hr S	ENGR 2160 <b>CIVE 4135</b> Civil Eng. Experiment. II 2 hr F	See Catalog <b>CIVE Elective</b> 3 hr
MATH 1050 <b>CHEM 1210*</b> Chemistry I <b>CHEM 1215*</b> Chemistry I Lab 4+1 hr F,S,Su	MATH 1210 <b>PHYS 2210*</b> Physics I <b>PHYS 2215*</b> Physics I Lab 4+1 hr F,S,Su	PHYS 2225, MATH 1220 <b>PHYS 2220*</b> Physics II <b>PHYS 2225*</b> Physics II Lab 4+1 hr F,S,Su	CHEM 1210 <b>ENGR 2160*</b> Material Science 3 hr F,S	ENGR 2030 <b>ME 3310</b> Fluid Mechanics 3 hr F	See Catalog <b>CIVE Elective</b> 3 hr	See Catalog <b>CIVE Elective</b> 3 hr	See Catalog <b>CIVE Elective</b> 3 hr
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>OR</b> CHEM 1210, CHEM 1215 <b>CHEM 1220*</b> Chemistry II <b>CHEM 1225*</b> Chemistry II Lab 4+1 hr F,S,Su	<b>EGDT 1400*</b> Surveying I 3 hr F,S,Su	<b>GE Health Elective</b> 2 hr	<b>GE Biology Elective</b> 3 hr	<b>Humanities Elective</b> Public Speaking 3 hr F,S,Su	<b>GE Fine Arts Elective</b> 3 hr
					<b>Soc./Behavioral Science</b> Interpersonal Communication 2 hr F,S,Su	See Catalog <b>CIVE Elective</b> 3 hr	<b>PHIL 2050</b> Ethics and Values 3 hr F,S,Su
							<b>GE American Institutions Elective</b> 3 hr