

# BS MECHANICAL ENGINEERING

## 2018-2019 Academic Year

### Pre-Engineering

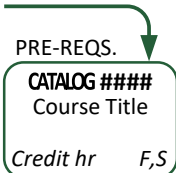
### Mechanical Engineering

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



Shading Key:  
 Blue = Math core  
 Yellow = Science Core  
 Green = Pre-Engineering  
 Grey = General Education

Year 1		Year 2		Year 3		Year 4	
Fall (16 hrs)	Spring (16 hrs)	Fall (17 hrs)	Spring (15 hrs)	Fall (15 hrs)	Spring (14 hrs)	Fall (16 hrs)	Spring (17 hrs)
MATH 1060 or higher <b>ENGR 1000*</b> Introduction to Engineering 3 hr F,S	MATH 1210 ENGR 1000 <b>ENGR 1030*</b> Engineering Programming 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	PHYS 2210 <b>ENGR 2300</b> Thermodynamics 3 hr F	ENGR 2300, ME 3310 <b>ME 3320</b> Heat Transfer 3 hr S	Dept. Approval <b>ME 4810</b> Capstone I 3 hr F	ME 4810 <b>ME 4820</b> Capstone II 3 hr S
		CHEM 1210, MATH 1210 <b>ENGR 2160*</b> Material Science 3 hr F,S	ENGR 2010 <b>ENGR 2140*</b> Mechanics of Materials 3 hr F,S	ENGR 2030 <b>ME 3310</b> Fluid Mechanics 3 hr F	↕	ME 3010 <b>ME 4010</b> Automatic Controls 3 hr F	ME 4010 <b>ME 4015</b> Control/Vib. Experiment. 2 hr S
MATH 1050, 1060 or 1065 <b>MATH 1210*</b> Calculus I 5 hr F,S,Su	MATH 1210 <b>MATH 1220*</b> Calculus II 5 hr F,S,Su	MATH 1220 <b>MATH 2250*</b> ODEs and Linear Algebra 4 hr F,S,Su	MATH 1220 <b>MATH 2210*</b> Calculus III 3 hr F,S,Su	ENGR 2140, ENGR 2160 <b>ME 3140</b> Machine Design 3 hr F	ENGR 2140, ENGR 2160 <b>ME 3210</b> Manufacturing Processes 3 hr S	ME 3140, ME 3320 <b>ME 4410</b> CAE 3 hr F	See Catalog <b>ME Elective</b> 3 hr
MATH 1050 <b>CHEM 1210*</b> Principles of Chemistry 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	ENGR 1030, MATH 2250 <b>ENGR 2450*</b> Computational Methods 3 hr F,S	ENGR 2030, MATH 2250 <b>ME 3010</b> Linear Systems 3 hr F	See Catalog <b>ME Elective</b> 3 hr	ME 4810 <b>ME 4510</b> ME Senior Seminar 1 hr F	<b>COMM 2110</b> Interpersonal Communication 3 hr F,S,Su
			PHYS 2210 <b>ECE 2210</b> Circuit Theory 3 hr F,S			See Catalog <b>ME Elective</b> 3 hr	<b>PHIL 2050</b> Ethics and Values 3 hr F,S,Su
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 Health Elective</b> 2 hr		<b>GE Biology Elective</b> 3 hr	<b>COMM 1020</b> Public Speaking 3 hr F,S,Su	<b>GE Fine Arts Elective</b> 3 hr	<b>GE American Institutions Elective</b> 3 hr