

Pre-Engineering

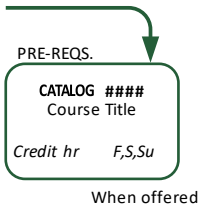
Mechanical Engineering

Program Admission:

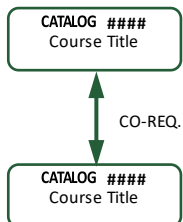
- Complete foundation courses* with minimum grade of C
- Overall GPA ≥ 2.5
- Submit application to Department

Graduation:

- Complete 126 hrs total with 40 hrs upper division ME
- Overall GPA ≥ 2.5
- C or better in ME core and elective courses
- Residency ≥ 30 hrs at UVU (≥ 12 ME). At least 10 hrs in last 45 hrs earned
- All transfer credits approved in writing by UVU and ME program coordinator
- Transfer credits < 80 hrs total and < 20 hrs in ME
- No more than 6 hrs independent study
- Complete one Global/Intercultural course



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



Pre-Engineering				Mechanical Engineering			
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 Pre- or co-req ENGR 1000* Introduction to Engineering 3 hr F,S	EGDT* 1071* 3 Dimensional Modeling - Solidworks 3 hr F,S	PHYS 2210 ENGR 2010* Engineering Statics 3 hr F,S	MATH 1220 ENGR 2010 PHYS 2210 ENGR 2030* Engineering Dynamics 3 hr F,S	MATH 1220 PHYS 2210 ENGR 2300 Thermodynamics 3 hr F	ENGR 2300 ME 3310 ME 3320 Heat Transfer 3 hr S	Dept. Approval ME 4810 Capstone I 3 hr F	ME 4810 Capstone II 3 hr S
MATH 1050/55 1060 or 1080 MATH 1210* Calculus I 4 hr F,S,Su	MATH 1210 MATH 1220* Calculus II 4 hr F,S,Su	CHEM 1210 ENGR 2160* Material Science 3 hr F,S	ENGR 2010 PHYS 2210 ENGR 2140* Mechanics of Materials 3 hr F,S	ENGR 2030 ME 3310 Fluid Mechanics 3 hr F	ME 3335 Thermal/Fluid Experiment. 2 hr S	ME 3010 ME 4010 Automatic Controls 3 hr F	ME 4010 ME 4015 Control/Vib. Experiment. 2 hr S
MATH 1050/55 or 1060 CHEM 1210* Principles of Chemistry I 4 hr F,S,Su	MATH 1210 Pre- or co-req. PHYS 2210* Physics I 4 hrs F,S,Su	MATH 1220 MATH 2250* ODEs and Linear Algebra 4 hr F,S,Su	MATH 1220 MATH 2210* Calculus III 4 hr F,S,Su	ENGR 2140 ENGR 2160 ME 3140 Machine Design 3 hr F	ENGR 2140 ENGR 2160 ME 3210 Manufacturing Processes 3 hr S	ME 3140 and ME 3320 ME 4410 CAE 3 hr F	See Catalog ME Elective 3 hr
MATH 1050/55 or 1060 CHEM 1215* Principles of Chemistry I Lab 1 hr F,S,Su	MATH 1210 Pre- or co-req. PHYS 2215* Physics I Lab 1 hr F,S,Su	PHYS 2225 MATH 1220 PHYS 2220* Physics II 4 hr F,S,Su	MATH 2250 Pre- or co-req. ENGR 2450* Computational Methods 3 hr F,S	ENGR 2030 MATH 2250 ME 3010 Linear Systems 3 hr F	See Catalog ME Elective 3 hr	ME 4810 Pre or co-req ME 4510 ME Senior Seminar 1 hr F	Social and Behavioral Science COMM 2110 (recommended) 3 hr
Test ENGL 1010* Introduction to Writing 3 hr	Test or ENGL 1010 ENGL 2010* Intermediate Writing 3 hr	PHYS 2225* Physics II Lab 1 hr F,S,Su	MATH 1210 PHYS 2210 ECE 2210 Fundamentals of Electric Circuit Analysis 3 hr F,S	ME 3010 Linear Systems 3 hr F	ME Elective 3 hr	See Catalog ME Elective 3 hr	PHIL 2050 Ethics and Values 3 hr
		GE Health Elective 2 hr		GE Biology Elective 3 hr	Humanities Elective COMM 1020 (recommended) 3 hr	GE Fine Arts Elective 3 hr	GE American Institutions Elective 3 hr