

Program Admission:

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

Graduation:

- Complete 128 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.

PRE-REQS.

CATALOG #####
Course Title

Credit hr F,S,Su

When offered

Shading Key:

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

CATALOG #####
Course Title

CO-REQ.

CATALOG #####
Course Title

Pre-Engineering

Mechanical Engineering

Pre-Engineering				Mechanical Engineering			
Year 1		Year 2		Year 3		Year 4	
Fall (15 hrs)	Spring (15 hrs)	Fall (18 hrs)	Spring (19 hrs)	Fall (15 hrs)	Spring (15 hrs)	Fall (16 hrs)	Spring (15 hrs)
ENGR 1000* Introduction to Engineering 3 hr F,S	EGDT 1071* 3-D 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	ENGR 2030 ENGR 2300 Thermodynamics 3 hr F,S	ENGR 2300 ME 3310 ME 3320 Heat Transfer 3 hr F,S	ME 2210 ME 3410 Pre- or co-req. 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 ENGR 2450 ME 3310 Fluid Mechanics 3 hr F,S	ENGR 2300 Pre ME 3320 Pre- or co-req ME 3335 Thermal/Fluid Experiment. 2 hr S	ME 3010 ME 4010 System Dynamics II 3 hr F,S	See Catalog ME Elective 3 hr
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	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,S	ENGR 2030 MATH 2250 ME 3010 System Dynamics I 3 hr F,S	ME 3050 Pre ME 4010 Pre- or co-req ME 4015 Control/Vib. Experiment. 1 hr F,S	See Catalog ME Elective 3 hr
MATH 1050/55 or 1060 CHEM 1210* Principles of Chemistry I 4 hr F,S,Su	MATH 1210 PHYS 2210* Physics I 4 hrs 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	MATH 1210 PHYS 2210 ENGR 2030 ME 3050 Mechatronics/Circuits 3 hr F,S	EGDT 1071 Pre ENGR 2140 Pre ME 3320 Pre- or co-req ME 3410 Applied FEA 3 hr F,S	See Catalog ME Elective 3 hr	
CHEM 1215* Principles of Chemistry I Lab 1 hr F,S,Su	PHYS 2215* Physics I Lab 1 hr F,S,Su	PHYS 2225* Physics II Lab 1 hr F,S,Su	ENGR 2160 ENGR 2140 Pre- or co-req ME 2210 Manufacturing Processes 3 hr F,S		Dept. Approval ME 4510 ME Seminar 1 hr S	GE Social and Behavioral Science COMM 2110 (recommended) 3 hr	GE PPCG Elective 3 hr
Test ENGL 1010* Introduction to Writing 3 hr	Test or ENGL 1010 ENGL 2010* Intermediate Writing 3 hr	(CS 1400) High School algebra or Trig (STAT 2040) MATH 1050 or 1055 or 1080 CS 1400 Fund. Programming or STAT 2040 Princ. Statistics 3-4 hr F,S,Su	GE Humanities Elective COMM 1020 (recommended) 3 hr	GE Life Sciences Elective 3 hr	See Catalog ME Elective 3 hr	GE Fine Arts Elective 3 hr	GE American Institutions Elective 3 hr