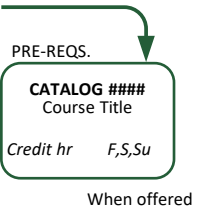


BS MECHANICAL ENGINEERING

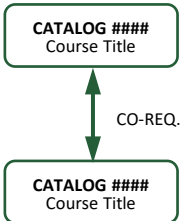
2026-2027 Academic Year

- 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.



- 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 (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 ENGR 2300 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 or 1060 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 |
| PRE-REQ. CATALOG #### Course Title Credit hr F,S,Su | MATH 1050/55 or 1060 CHEM 1210* Principles of Chemistry I 4 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 | 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 2210* Physics I 4 hrs 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 | PHIL 2050 G Ethics and Values 3 hr |
| | Test ENGL 1010* Introduction to Writing 3 hr | PHYS 2215* Physics I Lab 1 hr F,S,Su | (CS 1400) High School algebra or Trig (STAT 2040) MATH 1050 or 1055 or 1080 ENGL 2100 Technical Communication 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 |
| | | Test or ENGL 1010 ENGL 2010* Intermediate Writing 3 hr | CS 1400 Fund. Programming or STAT 2040 Princ. Statistics 3-4 hr F,S,Su | | | | |