



Associate of Pre-Engineering - Mechanical Engineering

Transfer Pathway 2024-2025 Catalog Year

This guide is subject to change and should be used in consultation with an academic advisor.

First Year

Fall Semester		Spring Semester	
MATH 1210 Calculus I	4	ENGL 2010 Intermediate Writing (EN)	3
ENGL 1010 Intro to Writing (EN)	3	MATH 1220 Calculus II	4
CHEM 1210/1215 Principles of Chemistry I/Lab	4/1	PHYS 2210 Physics for Science & Engineering I	4
ENGR 1010 Engineering Math Techniques	3	MEEN 1000/1005 Intro to Design in Engineering Systems/Lab	3
ENGR 1030/1035 MATLAB Problem Solving/Lab	3	American Institutions (AI)	3
ENGR 2950 Engineering Forum	1	FA 1080 Basic Metal Sculpting (FA) - recommended	3
Total	19	Total	20

Second Year

Fall Semester		Spring Semester	
ENGR 2010 Statics	3	ENGR 2030 Dynamics	3
MSE 2160 Elements of Material Science	3	EE 2210 Electrical Engineering for Non-Majors	3
PHYS 2220 Physics for Science & Engineering II	4	ENGR 2450 Numerical Methods	3
MEEN 2650 Manufacturing Engineering & Technology	3	MATH 2210 Multivariate Calculus	3
MATH 2250 Differential Eq/Linear Algebra	4	ENGR 2300 Engineering Thermodynamics	3
		ECON 2010 Principles of Microeconomics (SS) - recommended	3
Total	17	Total	18

*Indicates course specific to Utah Tech transfer

Additional labs and General Education courses can be completed at SLCC prior to transfer.

Bachelor of Science - Mechanical Engineering

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Third Year

Fall Semester		Spring Semester	
PHYS 2215 Physics Sci/Engineers I Lab	1	PHYS 2225 Physics/Scientists Engineers II Lab	1
MECH 1150 Prototyping Techniques	2.5	MECH 2250/2255 Sensors & Actuators Lab	3/1
Life Sciences (LS) – BIOL 1010 recommended	3	MECH 3602/3605 Thermodynamics II + Lab	1.5
General Education Requirement	3		
Total	9.5	Total	6.5

Fourth Year

Fall Semester		Spring Semester	
MECH 3200/3205 Systems & Controls/Lab	3/0.5	MECH 3250/3255 Machinery/Lab	3/1
MECH 3700/3705 Fluid Mechanics/Lab	4/0.5	MECH 3650/3655 Heat Transfer/Lab	3/0.5
MECH 3300/3305 Strength of Materials/Lab	3/0.5	MECH Tech Elective 1 - 4000+	3
Total	11.5	Total	10.5

Fifth Year

Fall Semester		Spring Semester	
MECH 4000 Product Design I	1	MECH 4010 Product Design II	3
ENGL 3010 Professional Writing and Business Ethics	3	MECH Tech Elective 4 - 4000+	4
MECH Tech Elective 2 - 4000+	3		
MECH Tech Elective 3 - 4000+	3		
Fundamentals of Engineering Exam			
Total	10	Total	7