

Recommended Academic Plan for Mechanical Engineering Technology

Associate in
Applied Science
Degree



This plan is a suggested semester-by-semester plan. It is designed to keep you on track for a timely graduation. This plan is not a substitute for academic advising. Contact an advisor for further information regarding placement based Placement exam scores, scheduling, degree requirements, and graduation requirements.

Semester 1 (Fall even years)				
Course	Credits	Prerequisite	Milestone/Notes	Completed
MTH:185 Pre-Calculus OR MTH:160 AND MTH:170	5-7	MTH:140 or higher		
GE:101 Technical Computer Applications OR ESC:101 Scientific Computer Programming	3	GE:121 may be taken instead with prior approval MTH:160 or higher required for ESC:101		
ENG:100 Career English OR ENG:101 College Composition I	3	ENG:030 and Reading Proficiency or concurrent enrollment in RDG:030 ENG:030 or ENG:070 or recommendation of department and Reading Proficiency or concurrent enrollment in RDG:030		
EGR:100 Engineering Drawing	3	EGR:050 or previous drafting work, or departmental approval		
GE: 131 Engineering Technology Orientation OR ESC:100 Engineering Computer Applications and Design	1	MTH:140 must be taken prior to or concurrently with ESC:100	Discuss academic plan, elective choices with faculty advisor	
Subtotal	15-17			
Semester 2 (Spring odd years)				
Course	Credits	Prerequisite	Milestone/Notes	Completed
ME:232 Geometric Dimensioning and Tolerancing	2	EGR:100 or department approval	Offered every other Spring	
PHY:111 College Physics	4	MTH:144 or prior or concurrent enrollment in MTH:160, MTH:160A, MTH:160B or MTH:160C and Reading Proficiency		
ME:151 Manufacturing Processes I	3			
ME:255 Fluid Power	3	MTH:144 or equivalent	Offered every other Spring	
*Social and Behavioral Sciences Elective	3		See college catalog for course options	
Subtotal	15			
Semester 3 (Fall odd years)				
Course	Credits	Prerequisite	Milestone/Notes	Completed
ME:249 Materials and Metallurgy	3		Offered every other Fall	
ME:135 Mechanics Statics OR ESC:203 Engineering Mechanics I	3	MTH:140 or higher required for ME:135 PHY:122 required for ESC:203		
ME:244 Mechanical Design I	3	EGR:100	Offered every other Fall	
ME:230 Introduction to 3-D Modeling for Design	4	Departmental Approval		
*Social and Behavioral Sciences Elective that meets the MO State Requirement	3		See college catalog for course options	
Subtotal	15			
Semester 4 (Spring even years)				
Course	Credits	Prerequisite	Milestone/Notes	Completed
GE:240 Product Design and Fabrication	4	ME:152 or EE:233 or Department Approval	Apply for Graduation Final culminating project experience Offered every other Spring	
ME:242 Mechanics Dynamics	3	ME:135	Offered every other Spring	
ME:243 Strength of Materials OR (ESC 205 AND ESC 206)	3-4	ME:135	Offered every other Spring	
ME:254 Electricity and Controls OR ME:211 Programmable Logic Controllers OR EE:236 PLC Programmable Logic Controller	3	ME:140 recommended and Reading Proficiency required for ME:211 GE:101 or EE:233 or ME:140 required for EE236	Offered every other Spring	
ME: or EGR Elective	3			
Subtotal	16-17			
Total Hours in the Program: 62-65				

*See Catalog for classes that will fulfill the elective requirements catalog.stlcc.edu or the Mechanical Engineering Technology web page cte.stlcc.edu/Mechanical_Engineering_Technology

Maximize your transfer credits/classes by meeting with an academic advisor.

Students may substitute up to 6 credit hours of appropriate and relevant workplace learning for technical courses and/or electives included in the program. Pre-approval by the department and faculty supervision are required.

Mechanical Engineering Technology AAS Quick Checklist

Courses	Credit Hours	Notes
GENERAL EDUCATION		
ENG:100 Career English OR ENG:101 College Composition I		
*Social and Behavioral Sciences Elective that meets the MO State Requirement		
*Social and Behavioral Sciences Elective		
MTH:185 Pre-Calculus OR MTH:160 AND MTH:170		
PHYSICAL EDUCATION 2 credit hours At least one credit must be an activity		
REQUIRED COURSES		
GE:101 Technical Computer Applications OR ESC:101 Scientific Computer Programming		
GE:131 Engineering Technology Orientation OR ESC:100 Engineering Computer Applications		
ME:232 Geometric Dimensioning and Tolerancing		
PHY:111 College Physics		
ME:151 Manufacturing Processes I		
ME:255 Fluid Power		
ME:249 Materials and Metallurgy		
ME:135 Mechanics Statics OR ESC:203 Engineering Mechanics I		
ME:244 Mechanical Design I		
ME:230 Introduction to 3-D Modeling for Design		
GE:240 Product Design and Fabrication		
ME:242 Mechanics Dynamics		
ME:243 Strength of Materials		
ME:254 Electricity and Controls OR ME:211 Programmable Logic Controllers OR EE:236 PLC Programmable Logic Controller		
ME: OR EGR: Elective		

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For more information, please see stlcc.edu/Programs/Degrees or consult the College Catalog at catalog.stlcc.edu

Advisor Contact Information

Name
Phone
Email