

**Mecanical Engineering Department**  
**Projection of Undergraduate Course Offerings from 2024 to 2027**

Course Code	Course Title	Summer 2024	2024-2025		Summer 2025	2025-2026		Summer 2026	2026-2027		Summer 2027
			1st Semester	2nd Semester		1st Semester	2nd Semester		1st Semester	2nd Semester	
INME/INGE 3809	Creative Design I		X			X			X		
INME 4001	Thermodynamics I		X	X		X	X		X	X	
INME 4002	Thermodynamics II		X	X		X	X		X	X	
INME 4003	Design of Thermal and Fluid Systems		X	X		X	X		X	X	
INME 4005	Mechanism Design		X	X		X	X		X	X	
INME 4006	Dynamics of Machinery	This course is subject to demand and availability or resources.									
INME 4009	Automatic Controls	This course is subject to demand and availability or resources.									
INME 4011	Design of Machine Elements I		X	X		X	X		X	X	
INME 4012	Design of Machine Elements II		X	X		X	X		X	X	
INME 4015	Heat Transfer		X	X		X	X		X	X	
INME 4018	Energy Conversion	This course is subject to demand and availability or resources.									
INME 4019	Energy Auditing Management	This course is subject to demand and availability or resources.									
INME 4027	Power Plant Engineering	This course is subject to demand and availability or resources.									
INME 4035	Refrigeration and Air Conditioning	This course is subject to demand and availability or resources.									
INME 4037	Internal Combustion Engines	This course is subject to demand and availability or resources.									
INME 4039	Mechanical Engineering Practice	X			X			X			X
INME 4045	General Thermodynamics for Engineers		X	X		X	X		X	X	
INME/INGE 4046	Fundamentals of Vibration		X			X			X		

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INME 4055	Manufacturing Processes		X	X		X	X		X	X	
INME 4056	Manufacturing Processes Laboratory		X	X		X	X		X	X	
INME 4057	Engineering Design		X	X		X	X		X	X	
INME 4058	Computer Aided Design	This course is subject to demand and availability or resources.									
INME 4065	Product Design	This course is subject to demand and availability or resources.									
INME 4107	Materials Science and Engineering		X	X		X	X		X	X	
INME 4108	Materials Science and Engineering		X	X		X	X		X	X	
INME 4109	Materials Science and Engineering Laboratory		X	X		X	X		X	X	
INME 4157	Engineering Design		X	X		X	X		X	X	
INME 4210	System Dynamics and Controls I		X	X		X	X		X	X	
INME 4220	System Dynamics and Controls II		X	X		X	X		X	X	
INME 4235	Mechatronics Laboratory	X	X	X	X	X	X	X	X	X	X
INME 4236	Thermal Science Laboratory	X	X	X	X	X	X	X	X	X	X
INME 4237	Mechatronics Laboratory	X	X	X	X	X	X	X	X	X	X
INME 4238	Thermal Science Laboratory	X	X	X	X	X	X	X	X	X	X
INME 4705	Applied Aerodynamics		X			X			X		
INME 4707	Gas Turbine Thermodynamics and Propulsion			X			X			X	
INME 4709	Aircraft Performance			X			X			X	
INME 4717	Introduction to Aircraft Structural Analysis		X			X			X		
INME 4810	Design and Techniques for Automation	This course is subject to demand and availability or resources.									
INME 4850	Introduction to Robotics	This course is subject to demand and availability or resources.									

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INME 4995	Engineering Practice for Coop Students	X	X	X	X	X	X	X	X	X	X
INME 4998	Undergraduate Research		X	X		X	X		X	X	
INME 5005	Lubrication		X			X			X		
INME 5007	Solar Energy Applications	This course is subject to demand and availability or resources.									
INME 5008	Corrosion		X			X			X		
INME 5010	Design Thinking		X			X			X		
INME 5015	Selected Topics in Mechanical Engineering		X	X		X	X		X	X	
INME 5018	Materials Failure Analysis			X			X			X	
INME 5025	Metals Fatigue			X			X			X	
INME 5510	Introduction to Finite Element Modeling			X			X			X	
INME 5520	Introduction to Computational Fluid Dynamics			X			X			X	
INME 5530	Introduction to Multibody Dynamics Modeling	This course is subject to demand and availability or resources.									
INME 5707	Gas Turbine System Operation		X			X			X		
INME 5717	Aircraft Structural Analysis and Design			X			X			X	
INME 5995	Special Problems		X			X			X		
INME 5996	Special Problems II			X			X			X	
INME 5997	Selected Topics II	This course is subject to demand and availability or resources.									

***\*The offer of all courses in this table is subject to demand and availability of resources. Please ask the Mechanical Engineering Department for course offerings per semester.***

***\*\*This table may be subject to change.***