

# ME Technical Elective Courses Schedule

Semester	Group 1	Group 2
Spring 2022	ME 42700 Sustainable Energy Sources & Systems	CS 38400 Numerical Analysis
	ME 43200 Manufacturing Processes	ME 49800 Research in Mech. Engineering
	ME 54700 Mechatronics, Robotics, & Automation	MET 33500 Basic Machining
	ME 54500 Finite Element Analysis: Advanced Theory & Applications	STAT 51100 Statistical Methods
Fall 2022	ME 42100 Heating and Air Conditioning I	ME 49800 Research in Mech. Engineering
	ME 47100 Vibration Analysis	MET 33500 Basic Machining
	ME 54400 Modeling & Simulation of Mechanical Engineering Systems	SE 53000 Systems Engineering Management
	ME 55000 Advanced Stress Analysis	STAT 51100 Statistical Methods
Spring 2023	ME 42400 Design & Opt. of Thermal Systems	CS 38400 Numerical Analysis
	ME 48000 Finite Element Analysis	ME 49800 Research in Mech. Engineering
	ME 50500 Intermediate Heat Transfer	MET 33500 Basic Machining
	ME 54600 CAD/CAM Theory and Advanced Applications	STAT 51100 Statistical Methods
Fall 2023	ME 42700 Sustainable Energy Sources & Systems	ME 49800 Research in Mech. Engineering
	ME 47100 Vibration Analysis	MET 33500 Basic Machining
	ME 43200 Manufacturing Processes	SE 55000 Adv. Manuf. Systems & Processes
	ME 54500 Finite Element Analysis: Advanced Theory & Applications	STAT 51100 Statistical Methods
	ME 55000 Advanced Stress Analysis	
Spring 2024	ME 42100 Heating and Air Conditioning I	CS 38400 Numerical Analysis
	ME 48000 Finite Element Analysis	ME 49800 Research in Mech. Engineering
	ME 54400 Modeling & Simulation of Mechanical Engineering Systems	MET 33500 Basic Machining
	ME 54600 CAD/CAM Theory and Advanced Applications	SE 52000 Engineering Economics
Fall 2024		STAT 51100 Statistical Methods
	ME 42400 Design & Opt. of Thermal Systems	ME 49800 Research in Mech. Engineering
	ME 47100 Vibration Analysis	MET 33500 Basic Machining
	ME 43200 Manufacturing Processes	SE 53000 Systems Engineering Management
	ME 54700 Mechatronics, Robotics, & Automation	STAT 51100 Statistical Methods
Spring 2025	ME 55000 Advanced Stress Analysis	
	ME 42700 Sustainable Energy Sources & Systems	CS 38400 Numerical Analysis
	ME 47100 Vibration Analysis	ME 49800 Research in Mech. Engineering
	ME 48000 Finite Element Analysis	MET 33500 Basic Machining
	ME 50500 Intermediate Heat Transfer	STAT 51100 Statistical Methods
	ME 54500 Finite Element Analysis: Advanced Theory & Applications	

Note:

1. This schedule is subject to change.
2. Other courses in Group 2 of the Mechanical Engineering Technical Elective Courses list are also offered, however, there isn't a set schedule.
3. For information about the combined BSME/MSE degree contact Dr. Hosni Abu-Mulaweh ([mulaweh@ipfw.edu](mailto:mulaweh@ipfw.edu)).
4. For information about the Advanced Manufacturing Engineering Certificate program contact Dr. Don Mueller ([don.mueller@ipfw.edu](mailto:don.mueller@ipfw.edu))