

ME Technical Elective Courses Schedule

Semester	Group 1	Group 2
Spring 2024	ME 42100 Heating and Air Conditioning I ME 43200 Manufacturing Processes ME 48000 Finite Element Analysis ME 54600 CAD/CAM Theory and Advanced Applications ME 54700 Mechatronics, Robotics, & Automation	CS 38400 Numerical Analysis ME 49800 Research in Mech. Engineering MET 33500 Basic Machining SE 54000 System Architecture STAT 51100 Statistical Methods
Fall 2024	ME 42400 Design & Opt. of Thermal Systems ME 48000 Finite Element Analysis ME 54500 Finite Element Analysis: Advanced Theory & Applications ME 54400 Modeling & Simulation of Mechanical Engineering Systems	ME 49800 Research in Mech. Engineering MET 33500 Basic Machining SE 55000 Advanced Manufacturing Systems and Processes STAT 51100 Statistical Methods
Spring 2025	ME 42700 Sustainable Energy Sources & Systems ME 43200 Manufacturing Processes ME 50500 Intermediate Heat Transfer ME 54600 CAD/CAM Theory and Advanced Applications	CS 38400 Numerical Analysis ME 49800 Research in Mech. Engineering MET 33500 Basic Machining SE 52000 Engineering Economics STAT 51100 Statistical Methods
Fall 2025	ME 42700 Sustainable Energy Sources & Systems ME 47100 Vibration Analysis ME 48000 Finite Element Analysis ME 54700 Mechatronics, Robotics, & Automation ME 55000 Advanced Stress Analysis	ME 49800 Research in Mech. Engineering MET 33500 Basic Machining SE 53000 System Eng. Management STAT 51100 Statistical Methods
Spring 2026	ME 42100 Heating and Air Conditioning I ME 43200 Manufacturing Processes ME 54400 Modeling & Simulation of Mechanical Engineering Systems ME 54500 Finite Element Analysis: Advanced Theory & Applications	CS 38400 Numerical Analysis ME 49800 Research in Mech. Engineering MET 33500 Basic Machining SE 54000 System Architecture STAT 51100 Statistical Methods
Fall 2026	ME 42400 Design & Opt. of Thermal Systems ME 47100 Vibration Analysis ME 48000 Finite Element Analysis ME 48000 ME 54600 CAD/CAM Theory and Advanced Applications ME 55000 Advanced Stress Analysis	ME 49800 Research in Mech. Engineering MET 33500 Basic Machining SE 55000 Advanced Manufacturing Systems and Processes STAT 51100 Statistical Methods
Spring 2027	ME 42700 Sustainable Energy Sources & Systems ME 47100 Vibration Analysis ME 50500 Intermediate Heat Transfer ME 54700 Mechatronics, Robotics, & Automation	CS 38400 Numerical Analysis ME 49800 Research in Mech. Engineering MET 33500 Basic Machining SE 52000 Engineering Economics STAT 51100 Statistical Methods

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).
4. For information about the Advanced Manufacturing Engineering Certificate program contact Dr. Don Mueller (don.mueller@ipfw.edu)