The Department of Mechanical and Industrial Engineering offers MS and PhD degree programs in industrial engineering. To be eligible for admission to any of the master’s degree programs, a prospective student must hold a Bachelor of Science degree in engineering, science, mathematics, or equivalent field. Students may pursue any program either on a full- or part-time basis; however, restrictions may apply, as described below. Students who receive financial support from the university in the form of a research, teaching, or tuition assistantship must complete an 8-semester-hour thesis. Other students may choose to complete a thesis or pursue their degree on a course-work-only basis. Students who complete the thesis option must make a presentation at a thesis defense before approval by the department.

**MSIE—Master of Science in Industrial Engineering, Thesis Option**

**GENERAL REQUIREMENTS**
- IE 6200 Engineering Probability and Statistics 4 SH
- OR 6205 Deterministics Operations Research 4 SH
- Two of the following courses:
  - IE 7210 Production System 4 SH
  - IE 7215 Simulation Analysis 4 SH
  - IE 7315 Human Factors Engineering 4 SH
- MS Thesis 8 SH
- Two approved electives 8 SH

**MSIE—Master of Science in Industrial Engineering with Graduate Certificate in Engineering Leadership**

**GENERAL REQUIREMENTS**
- ENLR 5121 Engineering Leadership 1 2 SH
- ENLR 5122 Engineering Leadership 2 2 SH
- ENLR 5131 Scientific Foundations of Engineering 1 2 SH
- ENLR 5132 Scientific Foundations of Engineering 2 2 SH
- IE 6200 Engineering Probability and Statistics 4 SH
- ME 7440 Mechanical Engineering Leadership Challenge Project 1 4 SH
- ME 7442 Mechanical Engineering Leadership Challenge Project 2 4 SH
- OR 6205 Deterministics Operations Research 4 SH
- Two of the following courses: IE 7210, IE 7215, IE 7315 8 SH

**PhD in Industrial Engineering—Advanced Degree Entrance**

**GENERAL REQUIREMENTS**
- Approved course work 24 SH
- IE 9990 Dissertation 0 SH

**PhD in Industrial Engineering—Bachelor’s Degree Entrance**

**GENERAL REQUIREMENTS**
- Approved course work 48 SH
- IE 9990 Dissertation 0 SH