



M.S. in Industrial Engineering

This program offers professional training leading to a graduate degree in industrial engineering. Students engage in a dynamic curriculum that combines core courses, hands-on engineering skill development, and flexible electives, with options for project- or thesis-based work. The program equips graduates with the expertise and versatility to pursue diverse career paths across academia, industry, and a wide range of professional fields.

WHAT TO EXPECT

Industrial Engineering Foundations

- Build advanced knowledge and skills to tackle complex, real-world challenges while developing the ability to identify, formulate, and solve engineering problems using scientific methods and supervised research.

Technical Communication and Professional Skills

- Strengthen written and oral communication by producing meaningful technical work and presenting it effectively in professional settings.

Personalized Instruction and Research Opportunities

- Benefit from small class sizes, one-on-one faculty mentorship, and access to diverse research opportunities that emphasize interdisciplinary work and hands-on engagement.

Industry Connections and Career Preparation

- Leverage strong ties with government and industry to gain experience through real-world projects and internships, preparing you for careers in industrial engineering and related fields.



FAST FACTS



**Take Advantage of
Faculty
Mentorship**



**\$85-100k
Average
Salary**



**Graduate
In Less Than
Two Years**

5-Year B.S./M.S. option available for qualified undergraduate students enrolled within the Industrial and Systems Engineering Department.

Thesis and Non-Thesis option offered

AREAS OF EMPHASIS

Students can deepen their knowledge through established areas of emphasis that align with industry needs.

- Engineering Management
- Ergonomics and Human Factors
- Health Care Systems
- Management of Technology
- Manufacturing Engineering
- Data Analytics
- Operations Research
- Productivity Engineering
- Quality



WHY CHOOSE INDUSTRIAL ENGINEERING

- **Specialized expertise:** Gain in-depth knowledge in cutting-edge areas such as data analytics, supply chains, energy systems, and healthcare operations.
- **Career advancement:** Position yourself for leadership roles in engineering, consulting, and technology with an M.S. credential from an internationally recognized university.
- **Integrated skillsets:** Develop a unique combination of technical, managerial, and analytical skills through cross-disciplinary collaboration.
- **Research opportunities:** Work alongside faculty on funded projects in energy, resilience, healthcare, and advanced supply chain systems.
- **Industry readiness:** Graduate with applied experience, case studies, and industry-linked projects that prepare you for immediate impact in the workforce.
- **Location advantage:** Leverage Miami's position as a global hub for healthcare, logistics, and sustainability innovation.

CAREER PATHS



Healthcare



Energy and
Sustainability



Supply Chain and
Logistics



Finance and
Analytics



Travel, Hospitality
and Cruise Lines



Government and
Public Sector

“Our program gives students the advanced skills to solve complex challenges in today's industries. With engaging coursework, research opportunities, and guidance from expert faculty, graduates are ready to drive innovation in fields like manufacturing, logistics, data analytics, and systems optimization.”

- Murat Erkoc, Professor, Industrial and Systems Engineering



For more
information



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