MASTER OF INDUSTRIAL ENGINEERING (MIE) DEGREE / MASTER OF BUSINESS ADMINISTRATION (MBA) DEGREE

Program Learning Outcomes for the MIE Degree

Upon completing the MIE degree, students will be able to:

1. Build physical and mathematical models of complex systems that arise in real-world situations.
2. Understand the flow of material from manufacturing to warehouses to customers through physical or mathematical models.
3. Produce data-driven and implementable solutions that improve the efficiency of real-world systems.
4. Communicate the solutions and insights generated by the models to a non-technical audience.

Program Learning Outcomes for the MBA Degree

Upon completing the MBA degree, students will be able to:

1. Demonstrate an understanding and application of the foundational frameworks and tools of all business disciplines, including accounting, finance, marketing, organizational behavior, and strategic management.
2. Develop, evaluate, and implement complex business strategies and operational solutions holistically, integrating management principles across the functional areas.
3. Function effectively in a team setting both as a leader and a contributor.

Requirements for the MIE/MBA Coordinated Degrees Program

Students may earn a coordinated MBA degree and a non-thesis Master of Engineering degree from the George R. Brown School of Engineering in the following fields:

- Chemical Engineering (MChE)
- Computational and Applied Mathematics (MCAAM)
- Computer Science (MCS)
- Industrial Engineering (MIE)
- Materials Science and Nanoengineering (MMSNE)
- Mechanical Engineering (MME)
- Statistics (MStat)

For the coordinated MBA/Master of Engineering degrees, students must complete:

- A minimum of 69 credit hours in approved coursework*, including:
  - A minimum of 30 credit hours of graduate-level study (coursework at the 500-level or above) to satisfy the Master of Engineering degree requirements
  - A minimum of 24 credit hours in the corresponding engineering discipline
  - A minimum of 6 credit hours in elective requirements*
  - A minimum of 45 credit hours of graduate-level study (coursework at the 500-level or above) to satisfy the MBA degree requirements
  - A minimum of 45 credit hours of business coursework
  - All MBA core requirements, the global field experience, custom core requirements, and coordinated elective requirements

*Note: A maximum of 6 credit hours of the Master of Engineering degree elective requirements may be selected from business course offerings (MGMP, MGMT, or MICO) and used to fulfill the requirements for both the MBA and the Master of Engineering degrees.

For general university requirements, see Graduate Degrees (https://ga.rice.edu/graduate-students/academic-opportunities/degrees/). For additional requirements, regulations, and procedures for all graduate programs, please see All Graduate Students (https://ga.rice.edu/graduate-students/academic-policies-procedures/regulations-procedures-all-degrees/). Candidates in the MBA/Master of Engineering coordinated degrees program must complete all requirements as listed for both degrees, and must apply and be accepted in both degree programs.

The courses listed below satisfy the requirements for this degree program. In certain instances, courses not on this official list may be substituted upon approval of the program’s academic advisor, or where applicable, the department or program’s Director of Graduate Studies. Course substitutions must be formally applied and entered into Degree Works by the department or program’s Official Certifier (https://registrar.rice.edu/facstaff/degreeworks/officialcertifier/). Additionally, these must be approved by the Office of Graduate and Postdoctoral Studies. Students and their academic advisors should identify and clearly document the courses to be taken.

Summary

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td></td>
<td>Total Credit Hours Required for the Coordinated Master of Engineering Degree</td>
<td>Minimum of 30</td>
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<tr>
<td></td>
<td>Total Credit Hours Required for the Coordinated MBA Degree</td>
<td>Minimum of 45</td>
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Coordinated MIE Degree Requirements

Students in the coordinated MBA/MIE degrees program must complete the Core Requirements and Capstone Requirement of the MIE degree program (https://ga.rice.edu/programs-study/departments-programs/engineering/industrial-engineering/industrial-engineering-mie/#requirements-text) and Coordinated MIE Elective Requirements below.
Opportunities for the MIE/MBA Coordinated Degrees Program

Additional Information

For additional information on these two degrees:

1. Please see the Industrial Engineering website: https://engprofmasters.rice.edu/
2. Please see the Jones Graduate School of Business website: https://business.rice.edu/