MASTER OF COMPUTATIONAL SCIENCE AND ENGINEERING (MCSE) DEGREE / MASTER OF BUSINESS ADMINISTRATION (MBA) DEGREE

Program Learning Outcomes for the MCSE Degree

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

1. Acquire broad, advanced knowledge in modern computational techniques.
2. Possess skills to identify, formulate, and solve advance technical problems related to one of the three focus areas.
3. Communicate technical ideas effectively.

Program Learning Outcomes for the MBA Degree Programs

Upon completing an MBA degree program 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 MBA/MCSE Coordinated Degree 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)
- Civil and Environmental Engineering (MCEE)
- Computational and Applied Mathematics (MCAAM)
- Computational Science and Engineering (MCSE)
- Computer Science (MCS)
- Materials Science and Nanoengineering (MMSNE)
- Mechanical Engineering (MME)
- Statistics (MStat)

For the coordinated MBA/Master of Engineering degree, 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 4 credit hours in elective requirements

Students plan their course schedules in consultation with the George R. Brown School of Engineering department in which they are enrolled and with the Jones Graduate School of Business Registrar Department. Coordinated degree candidates can fulfill requirements for both degrees within 2 academic years.

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

Summary

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

Coordinated MCSE Degree Requirements

Students in the coordinated MBA/MCSE program must complete the Core Requirements of the MCSE degree program (ga.rice.edu/programs-study/departments-programs/engineering/computational-science-engineering/computational-science-engineering-mcse/#requirementstext) and Coordinated MCSE Elective Requirements below.

<table>
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<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td></td>
<td>MCSE Core Requirements</td>
<td>9-11</td>
</tr>
<tr>
<td></td>
<td>Coordinated MCSE Elective Requirements</td>
<td>19-21</td>
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</tbody>
</table>

Select a minimum of 13-15 credit hours from approved departmental (CAAM, COMP, ELEC, ENGI, or STAT) course offerings at the 500-level or above

Select a maximum of 6 credit hours from approved course offerings (MGMP, MGMT, or MICO) from the Jones Graduate School of Business at the 500-level or above

Total Credit Hours 30

Coordinated MBA Degree Requirements

Students in the coordinated MBA/Master of Engineering program or in the coordinated MBA/Master of Science degree from the professional master’s program must complete the Core Requirements, Global Field Experience, and Custom Core Requirements of the full-time MBA degree program (ga.rice.edu/programs-study/departments-programs/business/).
business/business-administration-mba-full-time/#requirementstext) and the Coordinated MBA Elective Requirements below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td></td>
<td>Full-time MBA Core Requirements</td>
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<td>Full-time MBA Global Field Experience Requirement</td>
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<td></td>
<td>Full-time MBA Custom Core Courses</td>
<td>3-6</td>
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<tr>
<td></td>
<td>Coordinated MBA Elective Requirements</td>
<td></td>
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<td></td>
<td>Select an additional 12-15 credit hours from departmental (MGMP, MGMT, or MICO) course offerings at the 500-level or above to reach 45 total credit hours.(^1)</td>
<td>12-15</td>
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</table>

Total Credit Hours 45

Footnotes and Additional Information

\(^1\) To fulfill the remaining requirements for the coordinated MBA degree program, students must complete an additional 12-15 credit hours from departmental (MGMP, MGMT, or MICO) course offerings at the 500-level or above to reach 45 total credit hours. (MGMT 703, MGMT 704, and MGMT 705 are not accepted as electives.) The second year of the program is dedicated entirely to MBA elective coursework. Although the Jones Graduate School of Business offers a variety of courses for students to take as electives, students may wish to take courses from other departments at Rice University. MBA electives are offered on the daytime schedule, the evening schedule, and the weekend schedule.

Policies for the MBA/MCSE Coordinated Degree Program

Additional Information

For additional information on these two degrees:

1. Please see the Jones Graduate School of Business website: https://business.rice.edu/
2. Please see the Computational Science and Engineering website: https://engrprofmasters.rice.edu/

Opportunities for the MBA/MCSE Coordinated Degree Program

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