Industrial and Systems Engineering, MSOR

The ISEEM Department offers three plans leading to the MSOR degree. These are designated:

• Plan I (Thesis),
• Plan II (Non-thesis with final project paper; exit exam is an oral examination)
• Plan II (Non-thesis, coursework only; exit exam is over coursework)

The following sections describe the requirements for each of these options. Additional requirements, policies and required forms may be found in the ISEEM Department office.

Basic Program of Study

The Basic Program of Study, common to the Plan I and Plan II (Non-thesis) MSE options, contains a minimum of 24 semester hours of graduate-level course work that must include:

Engineering Major
ISE 626 INTRO OPERATIONS RESEARCH 3
ISE 726 SYSTEMS MODELING 3
Select two of the following 6
ISE 547 INTRO TO SYSTEMS SIMULATION
ISE 638 ENGINEERING RELIABILITY
ISE 647 ADVANCED SYSTEM SIMULATION
ISE 734 DECISION ANALYSIS
ISE 738 RELIAB/AVAILAB/MAINTAINA

First Minor
Select a first minor of 6 semester hours of graduate courses in an approved engineering area of specialization

Choose from the following areas (courses are approved by advisor): Manufacturing Systems, Quality Engineering, Systems Engineering, Operations Research, Reliability Engineering, Systems Simulation, and Engineering Management

Second Minor
ISE 526 DESIGN/ANALY OF EXPERIMENT 3
ISE 690 STATISTICAL METHODS FOR ENGR 3

Total Semester Hours 24

Plan I, Thesis Option

Students selecting this option must:

Complete Basic Program of Study as described above 24

Master’s Thesis
ISE 699 MASTER’S THESIS 6
Complete an acceptable thesis including a public defense

Total Semester Hours 30

Plan II, Non-Thesis Option (Final Project)

Students selecting this option must:

Complete Basic Program of Study as described above 24
Select 3 semester hours of graduate courses to complete an approved extended program of study 3
ISE 697 INDUS & SYSTEMS ENGR PROJECT I 3

Total Semester Hours 30

Plan II, Non-Thesis Option (Coursework Only)

Students selecting this option must:
<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Complete Basic Program of Study as described above</td>
<td>24</td>
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<tr>
<td>Select 6 semester hours of graduate courses to complete an approved extended program of study</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td><strong>30</strong></td>
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