Please choose courses from drop down list or type in course. PLEASE FILL OUT ELECTRONICALLY.

<table>
<thead>
<tr>
<th>FALL SEMESTER COURSE OPTIONS (12 cr):</th>
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<tbody>
<tr>
<td>Dept &amp; Catalog # (example: IE 515)</td>
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<tr>
<td>Course Name</td>
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<tr>
<td># of Credits</td>
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<tr>
<td>IE Course Option ✓</td>
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<tr>
<td>50% Grad Level Course* ✓</td>
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<th>SPRING SEMESTER COURSE OPTIONS (12 cr):</th>
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<tr>
<td>Dept &amp; Catalog # (example: IE 515)</td>
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<tr>
<th>SUMMER SESSION COURSE OPTIONS (6 cr) or ISyE Undergrad Coursework taken at UW (6 cr):</th>
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</thead>
<tbody>
<tr>
<td>Dept &amp; Catalog # (example: IE 515)</td>
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</tbody>
</table>

TOTAL

Please review the Named Options M.S. degree in ISyE policy information [here](#) for further details on the SEA program requirements.

Please review additional information on the following page.
**50% Graduate School Policy** – Graduate school requires 50% (15 credit) of courses be of graduate level. Prior ISyE undergraduate course work DOES NOT count toward this requirement. Upon completion of program requirements, please review your program guide with advisor for signature and bring this form to the COE Graduate Center in 3182 Mechanical Engineering to request final warrant from the Graduate School. Please note if you earn a grade of C or below in a course you CANNOT count that course toward the 30-credit requirement.

**NOTE:** At least 18 credits of ISyE Course Credits taken during the graduate program is required. (ISyE seniors may count up to 6 credits of prior ISyE undergraduate coursework toward meeting this requirement).

### FINAL SEMESTER REQUIREMENTS

- At the beginning of the final semester, students please complete the form, have it signed and approved by faculty advisor to then upload to [ISyE BOX folder system](mailto:pam.peters@engr.wisc.edu) for processing. Once saved to your Box file, please send confirmation email to Pam Peterson/ISyE Graduate Coordinator at prpeters@engr.wisc.edu that your approved form has been saved to your Box file to request your final warrant. An email notification will then be sent to you once your warrant has been processed and can be picked up from the Graduate Student Service office in ME 3182.
- Apply online for graduation through MyUW student center.
  - Please see instructions [here](https://www.engr.wisc.edu/academics/student-services/career-services/).

### EXIT REQUIREMENTS

*In order to be eligible for graduation, a Master’s student must:*

- Have a GPA of 3.0 or higher
- Meet all MS degree requirements for their focus area
- Have all grades entered, except for the current semester. No Incomplete (I’s) or No Report (NRs) grades can show on the student’s transcript.
- Be enrolled in at least 2 credits the semester in which they graduate.
- Have their MS degree warrant signed and dated by the degree deadline.
- Please note if you earn a grade of C or below in a course you CANNOT count that course toward the 30-credit requirement.
- Review [Graduate School Policy](https://www.engr.wisc.edu/department/industrial-systems-engineering/) on finishing up your master’s degree.

### JOB PLACEMENT

Engineering Career Services Office  
1150 Engineering Hall  
1415 Engineering Drive  
Madison, WI 53706  
Tel: (608) 262-3471  
Email: ecs@engr.wisc.edu  
[https://www.engr.wisc.edu/academics/student-services/career-services/](https://www.engr.wisc.edu/academics/student-services/career-services/)

### FURTHER INFORMATION

University of Wisconsin-Madison  
Industrial Engineering Department  
1513 University Avenue, Room 3270  
Madison, WI 53706-1572  
Tel: (608) 262-2686  
Email: iegradadmission@engr.wisc.edu  
[https://www.engr.wisc.edu/department/industrial-systems-engineering/](https://www.engr.wisc.edu/department/industrial-systems-engineering/)
IE SEA Program Course Offerings

Below is a typical curriculum for those pursuing a MSIE-Named Option in Systems Engineering and Analytics. These are suggested courses and are not guaranteed to be offered at time of enrollment.

**NOTE:** At least 18 credits of ISyE Course Credits taken during the graduate program is required. (Prior ISyE undergraduate coursework does NOT count toward meeting this requirement).

**FALL POTENTIAL COURSE OPTIONS:**

- ISyE 313: Engineering Economic Analysis
- ISyE 412: Fundamentals of Industrial Data Analytics
- ISyE 510: Facilities Planning
- ISyE 512: Inspection, Quality Control and Reliability
- ISyE 524: Introduction to Optimization
- ISyE 525: Linear Programming Methods
- ISyE 601: 004 IE Special Topics (Digital Mfg Tech For Enterprise System)
- ISyE 624: Stochastic Modeling Techniques
- ISyE 645: Engineering Models for Supply Chains
- ISyE 699: Independent Studies (up to 6 credits – contact instructor directly for permission)
- EMA 601: Special Topics in Engineering Mechanics
- OTM 722: Logistics Management
- OTM 765: Contemporary Topics

**SPRING POTENTIAL COURSE OPTIONS:** (course guide will be published mid-October)

- ISyE 313: Engineering Economic Analysis
- ISyE 412: Fundamentals of Industrial Data Analytics
- ISyE 512: Inspection, Quality Control and Reliability
- ISyE 517: Decision Making in Health Care
- ISyE 575: Introduction to Quality Engineering
- ISyE 601: Special topics TBD (if offered and advisor approval needed)
- ISyE 612: Information Sensing and Analysis for Manufacturing Processes
- ISyE 615: Production Systems Control
- ISyE 620: Simulation Modeling and Analysis
- ISyE 641: Design and Analysis of Manufacturing Systems
- ISyE 643: Performance Analysis of Manufacturing Systems
- ISyE 699: Independent Studies (up to 6 credits)
- COMP SCI 301: Introduction to Data Programming
- COMP SCI 540: Introduction to Artificial Intelligence
- COMP SCI 760: Machine Learning
- COMP SCI 787: Advanced Algorithms
- OTM 421: Fundamentals of Supply Chain Management
- OTM 654: Production Planning and Control
- OTM 753: Healthcare Operations Management
- OTM 765: Contemporary Topics
- MHR 412: Management Consulting
- Math 521: Analysis I
- Marketing 727: Enterprise Systems and Supply Chain Management
- RMI 660: Risk Analytics and Behavioral Science
- STAT 471: Introduction to Computational Statistics
- STAT 479: Special Topics in Statistics

**SUMMER POTENTIAL COURSE OPTIONS:** (course guide will be published mid-January)

- ISyE 313: Engineering Economic Analysis
- ISyE 516: Introduction to Decision Analysis
- ISyE 575: Introduction to Quality Engineering
- ISyE 601: Special topics TBD (if offered and advisor approval needed)
- ISyE 699: Independent Studies (up to 6 credits)

**IE Course Options listed online not currently planned to be offered 2017-2018:**

- ISyE 425: Introduction to Combinatorial Optimization
- ISyE 510: Facilities Planning
- ISyE 605: Computer Integrated Manufacturing