# Operations Research (MS)

## Degree Requirements

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<th>Hours</th>
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<tr>
<td><strong>Required Courses</strong></td>
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### Requirement A Courses
- OR 601 Seminar in Operations Research
- OR 695 Master's Thesis Research

### Requirement B Courses
Select one of the following courses:
- OR 505 Linear Programming
- OR 506 Algorithmic Methods in Nonlinear Programming
- OR 709 Dynamic Programming

### Requirement C Courses
Select four of the following courses:
- OR 501 Introduction to Operations Research
- OR 504 Introduction to Mathematical Programming
  - or OR 505 Linear Programming
- CSC 505 Design and Analysis Of Algorithms
- OR 506 Algorithmic Methods in Nonlinear Programming
- ST 516 Experimental Statistics For Engineers II
- OR 531 Dynamic Systems and Multivariable Control I
- OR 537 Computer Methods and Applications
- MA/ST 546 Probability and Stochastic Processes I
- OR 560 Stochastic Models in Industrial Engineering
- OR 562 Simulation Modeling
- OR 706 Nonlinear Programming
- OR 708 Integer Programming
- OR 709 Dynamic Programming
- MA/ST 747 Probability and Stochastic Processes II
- OR 760 Applied Stochastic Models in Industrial Engineering
- OR 761 Queues and Stochastic Service Systems
- OR 762 Computer Simulation Techniques
- OR 772 Stochastic Simulation Design and Analysis

### Elective Courses
12

*Elective Courses* that will be applied to reach 30 credit hours will be determined in conjunction with the academic committee.

| Total Hours | 31 |

### Notes
- OR 505, OR 506, and OR 709 cannot be double counted toward "Requirement C" courses if already used toward "Requirement B" courses.
- "Elective Courses" cannot be double counted if already used to fulfill requirements "A-C" courses.

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