# Operations Research (MR)

## Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td><strong>Required Courses</strong></td>
<td>15</td>
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<tr>
<td></td>
<td><strong>Requirement A Courses</strong></td>
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<tr>
<td></td>
<td>OR 601 Seminar in Operations Research</td>
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<td><strong>Requirement B Courses</strong></td>
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<td></td>
<td>Select one of the following courses:</td>
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<tr>
<td></td>
<td>OR 505 Linear Programming</td>
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<td></td>
<td>OR 506 Algorithmic Methods in Nonlinear Programming</td>
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<td></td>
<td>OR 709 Dynamic Programming</td>
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<td><strong>Requirement C Courses</strong></td>
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<td>Select four of the following courses:</td>
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<tr>
<td></td>
<td>OR 501 Introduction to Operations Research</td>
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<tr>
<td></td>
<td>OR 504 Introduction to Mathematical Programming</td>
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<td></td>
<td>or OR 505 Linear Programming</td>
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<td></td>
<td>CSC 505 Design and Analysis Of Algorithms</td>
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<td>OR 506 Algorithmic Methods in Nonlinear Programming</td>
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<td></td>
<td>ST 516 Experimental Statistics For Engineers II</td>
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<td></td>
<td>OR 531 Dynamic Systems and Multivariable Control I</td>
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<td></td>
<td>OR 537 Computer Methods and Applications</td>
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<td></td>
<td>MA/ST 546 Probability and Stochastic Processes I</td>
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<td></td>
<td>OR 560 Stochastic Models in Industrial Engineering</td>
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<td></td>
<td>OR 562 Simulation Modeling</td>
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<td></td>
<td>OR 706 Nonlinear Programming</td>
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<td></td>
<td>OR 708 Integer Programming</td>
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<td>OR 709 Dynamic Programming 1</td>
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<tr>
<td></td>
<td>MA/ST 747 Probability and Stochastic Processes II</td>
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<td></td>
<td>OR 760 Applied Stochastic Models in Industrial Engineering</td>
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<td></td>
<td>OR 761 Queues and Stochastic Service Systems</td>
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<td>OR 762 Computer Simulation Techniques</td>
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<td></td>
<td>OR 772 Stochastic Simulation Design and Analysis</td>
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<td></td>
<td><strong>Elective Courses</strong></td>
<td>15</td>
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<td></td>
<td>&quot;Elective Courses&quot; that will be applied to reach 30 credit hours will be determined in conjunction with the academic committee ²</td>
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</tbody>
</table>

**Total Hours** 30

1. OR 505, OR 506, and OR 709 cannot be double counted toward "Requirement C" courses if already used toward "Requirement B" courses.

2. “Elective Courses” cannot be double counted if already used to fulfill requirements “A-C” courses

## Full Professors

- Shu-Cherng Fang
- Yahya Fathi
- Subhashis Ghoshal
- Robert B. Handfield
- Robert E. Hartwig
- Christopher Graham Healey
- Hans Sebastian Heese
- Ilse Ipsen
- Kazufumi Ito
- Julie S. Ivy
- Jeffrey A. Joines
- Carl Timothy Kelley
- Russell E. King
- Zhilin Li
- George F. List
- Min Liu
- Ning Lu
- Louis A. Martin-Vega
- Maria A. Mayorga
- Negash G. Medhin
- Arne Nilsson
- Tao Pang
- Harry G. Perros
- Ranji S. Ranjithan
- Michael A. Rappa
- Joseph P. Roise
- George N. Rouskas
- Nagiza F. Samatova
- Carla D. Savage
- Munindar P. Singh
- Ralph C. Smith
- Matthias F.M. Stallmann
- Binil Starly
- Julie LeAnne Swann
- Hien T. Tran
- Yannis Viniotis

- John W. Baugh
- Rada Yuryevna Chirkova
- Do Young Eun
Mladen Alan Vouk
Wenye Wang
Fen Wu
Zhaobang Zeng
Dmitry V. Zenkov

Associate Professors
Jacob James Adams
Kristin Anne Barletta
Joseph F. DeCarolis
Umut Dur
Min Jeong Kang
Michael G. Kay
Eda Kemahlioglu-Ziya
Yunan Liu
Osman Yalin Ozaltin
William Michael Rand
Thomas W. Reiland
Charles Eugene Smith
Hong Wan
Donald P. Warsing

Assistant Professors
Leila Hajibabai Dizaji
Xiaolei Fang
Jordan Kern
Timothy Charles Kraft
Andrew Papanicolaou
David Papp
Sara Shashaani
Mengmeng Zhu

Practice/Research/Teaching Professors
Billy L. Edge
Daniela Sofia Jones
David Lee Lubkeman
Brandon Mark McConnell

Javad Taheri

Emeritus Faculty
Peter Bloomfield
Stephen L. Campbell
Thom Hodgson

Adjunct Faculty
Brian Denton
Mihail Devetsikiotis
Patricia L. Hersh
Simon M. Hsiang
Anderson Rodrigo de Queiroz
Ting Yu