## Operations Research (MR)

### Degree Requirements

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

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

**Total Hours**

- 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.

### 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
- Julie LeAnne Swann
- Hien T. Tran
- Yannis Viniotis
- Mladen Alan Vouk

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

Associate Professors
Jacob James Adams
Kristin Anne Barletta
Joseph F. DeCarolis
Min Jeong Kang
Michael G. Kay
Eda Kemahlıoglu-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
David Papp
Sara Shashaani
Mengmeng Zhu

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

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