## Operations Research (MR)

### Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Courses</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Requirement A Courses</td>
<td></td>
</tr>
<tr>
<td>OR 601</td>
<td>Seminar in Operations Research</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Requirement B Courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following courses:</td>
<td></td>
</tr>
<tr>
<td>OR 505</td>
<td>Linear Programming</td>
<td></td>
</tr>
<tr>
<td>OR 506</td>
<td>Algorithmic Methods in Nonlinear Programming</td>
<td></td>
</tr>
<tr>
<td>OR 709</td>
<td>Dynamic Programming</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Requirement C Courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select four of the following courses:</td>
<td></td>
</tr>
<tr>
<td>OR 501</td>
<td>Introduction to Operations Research</td>
<td></td>
</tr>
<tr>
<td>OR 504</td>
<td>Introduction to Mathematical Programming</td>
<td></td>
</tr>
<tr>
<td>or OR 505</td>
<td>Linear Programming</td>
<td></td>
</tr>
<tr>
<td>CSC 505</td>
<td>Design and Analysis Of Algorithms</td>
<td></td>
</tr>
<tr>
<td>OR 506</td>
<td>Algorithmic Methods in Nonlinear Programming</td>
<td></td>
</tr>
<tr>
<td>ST 516</td>
<td>Experimental Statistics For Engineers II</td>
<td></td>
</tr>
<tr>
<td>OR 531</td>
<td>Dynamic Systems and Multivariable Control I</td>
<td></td>
</tr>
<tr>
<td>OR 537</td>
<td>Computer Methods and Applications</td>
<td></td>
</tr>
<tr>
<td>MA/ST 546</td>
<td>Probability and Stochastic Processes I</td>
<td></td>
</tr>
<tr>
<td>OR 560</td>
<td>Stochastic Models in Industrial Engineering</td>
<td></td>
</tr>
<tr>
<td>OR 562</td>
<td>Simulation Modeling</td>
<td></td>
</tr>
<tr>
<td>OR 706</td>
<td>Nonlinear Programming</td>
<td></td>
</tr>
<tr>
<td>OR 708</td>
<td>Integer Programming</td>
<td></td>
</tr>
<tr>
<td>OR 709</td>
<td>Dynamic Programming</td>
<td></td>
</tr>
<tr>
<td>MA/ST 747</td>
<td>Probability and Stochastic Processes II</td>
<td></td>
</tr>
<tr>
<td>OR 750</td>
<td>Applied Stochastic Models in Industrial Engineering</td>
<td></td>
</tr>
<tr>
<td>OR 761</td>
<td>Queues and Stochastic Service Systems</td>
<td></td>
</tr>
<tr>
<td>OR 762</td>
<td>Computer Simulation Techniques</td>
<td></td>
</tr>
<tr>
<td>OR 772</td>
<td>Stochastic Simulation Design and Analysis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elective Courses</td>
<td>15</td>
</tr>
<tr>
<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.</td>
<td></td>
</tr>
</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

John W. Baugh  
Rada Yuryevna Chirkova  
Do Young Eun  
Shu-Cherng Fang  
Yahya Fathi  
Subhashis Ghosal  
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
Mladen Alan Vouk
Wenyee 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

**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

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

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