# Operations Research (MR)

## Degree Requirements

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

| | 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

## Professors

- Kristin A. Barletta
- John W. Baugh
- Rada Yuryevna Chirkova
- Huaiyu Dai
- Joseph DeCarolis
- Umut Dur
- Shu-Cherng Fang
- Yahya Fathi
- Subhashis Ghoshal
- Robert B. Handfield
- Christopher Graham Healey
- Hans Sebastian Heese
Ilse Ipsen
Jeffrey A. Joines
Russell E. King
Zhilin Li
George F. List
Ning Lu
Louis A. Martin-Vega
Maria A. Mayorga, Director & Goodnight Distinguished Chair in Operations Research
Negash G. Medhin
Rainer Mueller
Tao Pang
Ranji S. Ranjithan
Michael A. Rappa
Joseph P. Roise
George N. Rouskas
Munindar P. Singh
Ralph C. Smith
Matthias F.M. Stallmann
Julie LeAnne Swann
Hien T. Tran
Yannis Viniotis
Mladen Alan Vouk
Wenyue Wang
Fen Wu
Zhaobang Zeng
Dmitry V. Zenkov

Min J. King
Timothy C. Kraft
Yunan Liu
Osman Ozaltin
Andrew Papanicolaou
David Papp
Anderson de Queiroz
Thomas W. Reiland
Charles E. Smith
Hong Wan
Donald P. Warsing

Assistant Professors
Leila Hajibabai Dizaji
Xiaolei Fang
Daniela S. Jones
Jordan Kern
S. Sebnem Ahiska King
Shawn Mankad
Benjamin Rachunok
Sara Shashaani
Wentao Tang
Zhuoting Yu
Mengmeng Zhu

Research Assistant Professor
Brandon M. McConnell

Emeritus Faculty
Peter Bloomfield
Julie S. Ivy
Carl Timothy Kelley
Harry G. Perros