

# Operations Research (PhD)

## Degree Requirements

Code	Title	Hours
<b>Required Courses</b>		17
<b>Requirement A Course</b>		
OR 801	Seminar in Operations Research	
<b>Requirement B Course</b>		
Select one of the following:		
OR 505	Linear Programming	
OR 506	Algorithmic Methods in Nonlinear Programming	
OR 709	Dynamic Programming	
<b>Requirement C Courses</b>		
Select four of the following:		
OR 501	Introduction to Operations Research	
OR 504	Introduction to Mathematical Programming <sup>1</sup>	
or OR 505	Linear Programming	
CSC 505	Design and Analysis Of Algorithms	
OR 506	Algorithmic Methods in Nonlinear Programming <sup>1</sup>	
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 <sup>1</sup>	
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	
<b>Elective Courses</b>		6-55
"Elective Courses" are determined in conjunction with the academic committee to meet the 72 total credit hours		
Total Hours		23-72

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

<sup>2</sup> "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 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

Wenye Wang

Fen Wu

Zhaobang Zeng

Dmitry V. Zenkov

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## Associate Professors

Jacob James Adams

Kristin Anne Barletta

Joseph F. DeCarolis

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

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## Assistant Professors

Leila Hajibabai Dizaji

Xiaolei Fang

Jordan Kern

Timothy Charles Kraft

David Papp

Sara Shashaani

Mengmeng Zhu

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## Practice/Research/Teaching Professors

Billy L. Edge

Daniela Sofia Jones

David Lee Lubkeman

Brandon Mark McConnell

Javad Taheri

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## Emeritus Faculty

Peter Bloomfield

Stephen L. Campbell

Thom Hodgson

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## Adjunct Faculty

Brian Denton

Mihail Devetsikiotis

Patricia L. Hersh

Simon M. Hsiang

Anderson Rodrigo de Queiroz

Ting Yu