Operations Research

Operations Research (OR) is a graduate program of an interdisciplinary nature, governed by an administrative board and the program committee, and administered through the office of the program director.

Admission Requirements

Applications are accepted from undergraduate majors in all technical disciplines. Applicants should have had at least four math courses beyond calculus (e.g., courses in differential equations, linear algebra, probability and statistics, and mathematical analysis). Knowledge of a computer programming language is recommended, but not required. GRE scores are required of all new applicants.

Master's Degree Requirements

The Master of Operations Research degree is a terminal graduate degree for students who seek careers as OR practitioners in either the private or public sector. The M.S. degree is designed to prepare students for careers in research and development.

Doctoral Degree Requirements

The Ph.D. degree is intended for students to be research scientists in industry or teachers and researchers in academia. This degree requires a minimum of 72 hours of graduate credit beyond the bachelor’s degree, including coursework in major and minor areas of concentration together with credit for doctoral research and dissertation preparation. A departmental written qualifying examination is required. For students who have completed a Master’s degree from another institution prior to joining the Ph.D. program, a minimum of 54 hours of additional graduate credit are required.

Student Financial Support

Both teaching and research assistantships are available to qualified applicants. Award priority is given to Ph.D. then M.S. applicants. Outstanding students who are U.S. citizens and who shall be enrolled in the NC State Graduate School for the first time are eligible for the Engineering Dean's Graduate Fellowship Program.

Degrees

• Operations Research (MR) (http://catalog.ncsu.edu/graduate/interdisciplinary/operations-research/operations-research-mr/)
• Operations Research (MS) (http://catalog.ncsu.edu/graduate/interdisciplinary/operations-research/operations-research-ms/)
• Operations Research (PhD) (http://catalog.ncsu.edu/graduate/interdisciplinary/operations-research/operations-research-phd/)
• Operations Research (Minor) (http://catalog.ncsu.edu/graduate/interdisciplinary/operations-research/operations-research-minor/)

Professors

Kristin Barletta
John W. Baugh
Rada Yuryevna Chirkova
Joseph F. DeCarolis

Umut Dur
Shu-Cherng Fang
Yahya Fathi
Subhashis Ghoshal
Robert B. Handfield
Christopher Graham Healey
Hans Sebastian Heese
Ilse Ipsen
Kazufumi Ito
Jeffrey A. Joines
Carl Timothy Kelley
Russell E. King
Zhilin Li
George F. List
Ning Lu
Louis A. Martín-Vega
Maria A. Mayorga, Director & Goodnight Distinguished Chair in Operations Research
Negash G. Medhin
Rainer Mueller
Tao Pang
Harry G. Perros
William M. Rand
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
Wenye Wang
Fen Wu
Associate Professors
Jacob J. Adams
Adolfo Raphael Escobedo
Zhishan Guo
Ali Hajibabaie
Arnab Jhala
Michael G. Kay
Eda Kemahlioglu-Ziya
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 McConnell

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