

ABOUT NC STATE OPERATIONS RESEARCH



NC STATE
UNIVERSITY

OPERATIONS RESEARCH
GRADUATE PROGRAM

NC STATE



What is Operations Research?

Operations Research (OR) is a discipline of problem-solving and decision-making that uses advanced analytical methods to help management run an effective organization. Problems are broken down, analyzed and solved in steps.

- Identify a problem
- Build a model around the real-world problem
- Use the model and data to arrive at solutions
- Test the solution and analyze its success
- Implement the solution

NC State Proudly Welcomes our Nation's Veterans and Military Families

- The Military Operations Research Group at NC State includes US active duty and military veterans from all Services and our allies.
- Students work on a variety of real-world problems.
- Develop skills in concentrations such as Data Analytics, Logistics, and Health Care Improvement.
- We understand active duty student timelines and develop individual advising plans to support student success.



Operations Research Degrees

The program offers three advanced degrees and two minors:

- **Master of Operations Research** (on-campus and online) (non-thesis)
- **Master of Science in Operations Research** (thesis)
- **Ph.D. in Operations Research**
- **Operations Research Minor** (MS)
- **Operations Research Minor** (Ph.D.)

OR students have teaching and research assistant positions in many departments, including computer science, electrical and computer engineering, industrial and systems engineering, mathematics and statistics.

Don't get left behind. See all that our Operations Research Program has to offer active duty and military veterans.

go.ncsu.edu/militaryOR

LIVING IN RALEIGH

Year after year, Raleigh, NC ranks among the five best places in the country to live and work. With moderate weather (71°F Avg temp), it's only two hours from the beach and three hours from the mountains. Raleigh is both welcoming to families and individuals alike and is proud of its well-educated workforce and multi-cultural environment.

LEARNING IN RALEIGH

The success of our faculty and students shows the Program's commitment to excellence. Each year, our faculty members receive many professional awards for their teaching and technological achievements. Our graduates find top-notch careers in research and development, design, production, and management. Students who choose the NC State Operations Research Program for their education choose success.

WORKING IN RALEIGH

NC State University anchors the Research Triangle Park (RTP), one of the country's largest and most successful high-tech research parks. RTP is the home of many of the country's leading Fortune 500 companies. There are many leading research and technology institutions only minutes away from the University. This creates a collaborative environment for both business and innovation with NC State.

So when it comes to selecting a place to get your degree, you can have it all. Raleigh and the RTP are a great place to live, learn and work. Don't miss all that Raleigh has to offer at go.ncsu.edu/LivinginRaleigh.

The **Operations Research Graduate Program** (OR) at NC State University is unique from many other OR programs because of its interdisciplinary nature being shared by the Colleges of Engineering, Management and Sciences. The diversity of its faculty ranges not only from engineering, management and science but also textiles and forestry.

The program offers Master's (thesis and non-thesis) and Ph.D. degrees and proudly welcomes our nation's veterans and military families. The Military OR Group includes US active duty and military veterans from all Services. It has earned a top 10 military-friendly ranking and was named a Military Times Best College.

Interested? Contact us to learn more about our students, programs and research.

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FITTS-WOOLARD HALL

The College of Engineering's newest academic and research building, Fitts-Woolard Hall, is home to the Operations Research Graduate program along with:

- The Edward P. Fitts Department of Industrial and Systems Engineering
- Department of Civil, Construction, and Environmental Engineering
- Dean's Administration Office

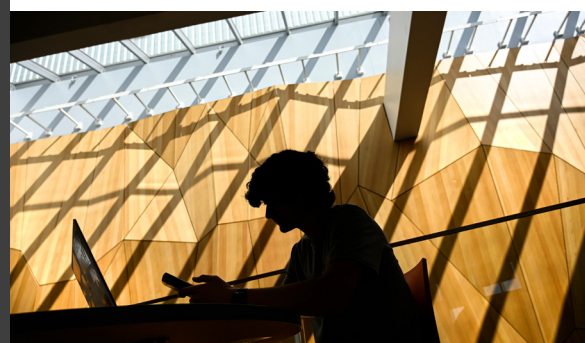
The building has been named to honor Edward P. Fitts, Jr. (ISE '61) and his wife, Debra, and Edgar S. Woolard, Jr. (ISE '56) and his wife, Peggy. Fitts-Woolard Hall honors their commitment to Engineering's continued growth and progress.

Fitts-Woolard Hall is an innovation hub, catalyzing cross-discipline research and fostering collaboration with industry partners.



Don't forget to take the full virtual tour of Fitts-Woolard Hall. **Fun Fact:** If you use your phone, you can move it around to get the 360 degree view.

go.ncsu.edu/tourFWH



CURRICULUM: Master of Operations Research (MOR)



First Semester

	Credit Hours
OR 601 Seminar in Operations Research	1
OR 501 Intro to Operations Research	3
Core Class	3
Technical Elective	3

Second Semester

	Credit Hours
Core Class	3
Core Class	3
Technical Elective	3
Technical Elective	3

Third Semester

	Credit Hours
Core Class	3
Technical Elective	3
Technical Elective	3

CURRICULUM: Master of Science in Operation Research (MSOR)



First Semester

	Credit Hours
OR 601 Seminar in Operations Research	1
OR 501 Intro to Operations Research	3
Core Class	3
Technical Elective	3

Second Semester

	Credit Hours
Core Class	3
Core Class	3
OR 695 Master's Thesis Research	3
Technical Elective	3

Third Semester

	Credit Hours
Core Class	3
OR 695 Master's Thesis Research	3
Technical Elective	3