CONCENTRATION IN OPERATIONS MANAGEMENT

Operations management is a broad and multi-dimensional business area. Highly integrative, operations management determines how an organization executes on its mission and goals. Operations management is both an art and a science, tying together quantitative analytical skills with cognitive problem solving.

The operations management concentration provides students with knowledge of current issues in the operations management discipline. Intense competition in fast-paced global environments makes competencies in this field critical in both service and goods-producing organizations. This concentration is applicable in many industries and organizations, combining knowledge in business analytics, process design and analysis methods, project management, and operations management issues. The curriculum recognizes environmental, ethical, and social issues. The pedagogy entails lectures and discussions, case studies, field studies, and analytical modeling.

The operations management concentration builds upon the Carroll School of Management core. Our courses emphasize analysis and decision making and are explicitly designed to deliver the skills and knowledge required to successfully manage people, processes, and systems in today’s competitive environment.

The concentration is designed to intersect with other functional disciplines, making operations management an excellent complement to other concentrations including accounting, business analytics, finance, marketing, information systems, or management and leadership.

OBJECTIVES OF THE UNDERGRADUATE CONCENTRATION IN OPERATIONS MANAGEMENT

Objectives of the undergraduate concentration are to develop managers who:

- possess a broad and deep understanding of theories and concepts in operations management
- are capable of applying skills and knowledge to address management problems
- understand and utilize quantitative and qualitative analysis in decision making
- appreciate the role of operations in an organization and the interrelationships among functional areas

OBJECTIVES OF THE UNDERGRADUATE CONCENTRATION IN OPERATIONS MANAGEMENT

A Four-Course Concentration

The following two courses are required:

- OPER3375 Operations Strategy & Consulting (Fall)
- OPER2253 Managing Projects (Spring)

also take two of the following:

- OPER3304/6614 Quality Management (Spring)
- OPER3310 Sports Analytics (Fall)
- OPER3332 Supply Chain Management (Fall)
- OPER3384 Predictive Analytics (Spring)
- OPER3385 Applied Econometrics for Business (Spring)
- OPER6604 Management Science (Fall & Spring)
- OPER6605 Risk Analysis & Simulation (Fall)
- OPER6606 Forecasting Techniques (Fall & Spring)
- OPER6608 Pricing & Revenue Optimization (Fall)

Students are strongly encouraged to take additional courses from the above.

STUDY ABROAD

There is no limit to how many courses taken abroad will be allowed for concentration credit. If the courses are judged equivalent and if the proposed courses constitute a reasonable selection, concentration or elective credit will be given.

All students wishing to study abroad must first meet with an advisor from the Office of International Programs. If accepted into the study abroad program and approved by Richard Keeley, Senior Associate Dean of the Undergraduate Program, the student should then see Sam Graves, Department Chair, for course approvals before going abroad. When students wish to have a course considered they should email or bring a copy of the syllabus and course description for approval.

All approvals must be obtained prior to going abroad. No approvals will be granted after the course has been completed.

THE DEPARTMENT

The operations management faculty consists of dedicated teachers and active and productive scholars in two mutually supportive disciplines:

- Operations Management
- Business Analytics

We welcome your questions and comments and are always pleased to offer counsel and advice in planning your educational program.
CAREERS

Operations managers manage both processes and people, with a highly integrative career path tying together analytical decision making with strategic perspectives and the needs of employees and other stakeholders. Our graduates have successfully attained positions in operations management and analysis in major companies such as Accenture, Boston Beer, Deloitte, Ernst & Young, Fidelity, General Electric, Goldman Sachs, IBM, JPMorgan Chase, and UBS. Students with this concentration may pursue careers in consulting, financial services, healthcare services, retail, transportation, technology, government, manufacturing, and non-profit organizations. Senior executives would likely have the title of Vice President or Director of Operations, or Chief Operations Officer. Positions at other levels include Operations Analyst/Manager, Project Manager, Supply Chain Analyst/Manager, Consultant, Process Designer/Owner, and Management Trainee, as well as positions on the corporate planning staff.

The demand for managers with these skills is strong and will increase as firms continue to recognize that they compete not only with new products, good marketing, and skillful finance but also with a high degree of competence in managing their operations.

Salaries for majors in operations are and will likely remain competitive with all other concentrations in management.

FACULTY

Isil Alev
Assistant Professor

Jiri Chod
Associate Professor

Joy Field
Associate Professor

Samuel Graves
Chairperson, Professor

Tingliang Huang
Assistant Professor

Stephanie Jernigan
Associate Professor of the Practice

Deishin Lee
Assistant Professor

Linda Boardman Liu
Associate Professor of the Practice & Assistant Chairperson

John Neale
Associate Professor of the Practice

Jeffrey Ringuest
Professor

Larry Ritzman
Galligan Professor Emeritus

M.H. (Safi) Safizadeh
Professor

Pieter Vanderwerf
Associate Professor of the Practice

Yehua Wei
Assistant Professor

Mei Xue
Associate Professor