

# UNDERGRADUATE PROGRAM

## Operations Management Concentration

### ADMISSION TO THE CONCENTRATION

The Operations Management Concentration does not require an application, nor will it be noted on the academic record (transcript). Students completing the recommended courses may note it on their resumes.

### CAREERS

UW Career Center  
134 Mary Gates Hall  
206.543.0535  
<http://careers.washington.edu>

Also, the Occupational Outlook Handbook offers recent information for students interested in researching careers.  
[www.bls.gov/oco](http://www.bls.gov/oco)

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### CONTACT INFORMATION

Foster School of Business  
University of Washington  
Box 353200  
Seattle WA 98195-3200

Undergraduate Programs Office  
137 Mackenzie Hall  
206.685.3400  
[bizinfo@u.washington.edu](mailto:bizinfo@u.washington.edu)  
[foster.washington.edu/undergrad](http://foster.washington.edu/undergrad)

Information Systems and  
Operations Management  
370 Mackenzie Hall  
206.543.1043  
[disom@u.washington.edu](mailto:disom@u.washington.edu)  
[foster.washington.edu/departments/isom/](http://foster.washington.edu/departments/isom/)

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The Operations Management Concentration is designed to give students in the Undergraduate Program a sequence of courses providing the knowledge and skills needed to manage the production and operations function of today's organizations. The operations function is critically important for successful organizations. According to recent studies, as much as 50 percent of U.S. productivity gains in the past ten years are due to improvements in information technology and supply chain management, which is an integral part of the Operations Management program.

Students who concentrated their coursework in Operations Management have accepted positions with:

- consulting organizations
- manufacturing organizations in staff or line positions
- service organizations, including hospitals, educational institutions, and government

### BUSINESS CORE COURSE

All Foster students must complete this course. It lays the foundation for the Operations Management Concentration.

**OPMGT 301 Principles of Operations Management (4)** Examines problems encountered in planning, operating, and controlling production of goods and services. Topics include: waiting-line management, quality assurance, production systems, project management, and inventory management. Computer and quantitative models used in formulating managerial problems. Prerequisites: ACCTG 225, ECON 200, calculus, statistics.

### REQUIRED OPERATIONS MANAGEMENT COURSES

Students must take the following course:

- OPMGT 443 Inventory and Supply Chain Management (4)

Choose at least two:

- OPMGT 402 Introduction to Logistics (4)
- OPMGT 450 Introduction to Project Management (4)
- OPMGT 461 Business and Process Design (4)
- OPMGT 490 Special Topics (1-6, max. 20)
- OPMGT 495 Operations Management Internship (1-4, max. 8)
- QMETH 450 Spreadsheet Models for Managerial Decision Making (4)

**OPMGT 402 Introduction to Logistics (4)** Logistics studies of the efficient delivery of goods and services. A total-cost approach recognizes this involves not only the obvious vehicle-routing issues but also shipment size and mix, warehouse location, product design, and customer services. Includes study of real companies' logistics problems. Prerequisite: OPMGT 301.

**OPMGT 443 Inventory and Supply Chain Management (4)** Use of material and supply chain management in manufacturing and service organizations to reduce inventory levels while providing adequate service to customers. Specific topics include forecasting, Just-in-Time production, deterministic and stochastic inventory models, and material requirements planning (MRP). Prerequisite: OPMGT 301.

## THE OPERATIONS MANAGEMENT CONCENTRATION

**OPMGT 450 Introduction to Project Management (4)** Focuses on the management of complex projects and the tools and techniques which have been developed in the past 25 years to assist managers with such projects. The course covers all elements of project planning, scheduling and control as well as implementation and organizational issues. Prerequisite: OPMGT 301.

**OPMGT 461 Business of Process Design (4)** Examines systems theory, project design, and strategic decision-making in a teaming environment. Provides a unique opportunity to get involved with real-life design problems in the chemical and aeronautical industries. Prerequisite: OPMGT 301.

**OPMGT 490 Special Topics in Operations Management (1-6, max. 20)** Operations management topics of current concern to faculty and students. Potential topics are: logistics management, project scheduling, manufacturing strategy, site and location analysis, management of service operations. Prerequisite: OPMGT 301.

**OPMGT 495 Operations Management Internship (1-4, max. 8)** Internship with a private firm, nonprofit organization, or government agency, where work experience involves substantial application of analysis techniques and management concepts learned in classroom. Credit/no credit only. Prerequisite: OPMGT 301.

**QMETH 450 Spreadsheet Models for Managerial Decision Making (4)** Formulation and solution of business problems using operations research techniques in a spreadsheet environment. Techniques of linear and integer programming, decision analysis, network optimization, queuing, and simulation. Applications from marketing, finance, and operations. Prerequisite: I S 300.

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