

MS IN OPERATIONS MANAGEMENT

Home Department: School of Management

Program Advisor/Contact:

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Program Overview

The Master of Science in Operations Management (MSOM) program focuses on the management skills, knowledge, and attitudes required to lead organizations that create goods and services. Students in this program will gain expertise in general business management areas, as well as a firm understanding of methods and practices in modern operations management. Students currently in this program possess a wide variety of backgrounds and undergraduate degrees. The School of Management designed this program for people who currently are in – or desire to enter – a management position within a manufacturing or services company. This program does not require a thesis. Five certificate options are embedded in the MS in Operations Management degree program.

On campus MSOM students may select a management internship course (MGMT-693) as part of the core program and may start the program in any term.

MSOM PROGRAM GOALS

Students should:

1. demonstrate the personal, interpersonal, teamwork, and ethical skills required to lead and manage operations in organizations effectively and ethically. (Personal Effectiveness)
2. be able to identify, evaluate, and choose alternative solutions to operational problems. (Cognitive Reasoning)
3. be able to evaluate technology's effects on organizational operations management. (Technological Mindset)
4. be able to explain the importance of an entrepreneurial mindset in managing organizational talent, resources, and innovation in a complex global economy. (Value Creation in a Global Economy)
5. demonstrate knowledge, skills, and abilities in core disciplines, focusing on identifying, solving, and managing complex operational issues to create value. (Core Domain Knowledge)

Program Curriculum Requirements

The curriculum for the Operations Management program involves 10 courses totaling 40 credit hours including:

- Seven core courses for 28 credits, plus
- Three certificate courses for 12 credits.

Prerequisites

A foundational level of knowledge in critical functional and tool areas is required in the Master of Science in Operations Management (MSOM) program. This foundation helps to ensure that students are prepared to fully engage and succeed in the coursework associated with graduate programs in management. Students must have an undergraduate course

in each of the following areas, or complete MGMT-510 Foundations of Business, or test out of individual prerequisite courses through self-directed study.

Areas of prerequisite knowledge:

Code	Title	Credit Hours
	Economics	
	Managerial Accounting	
	Statistics	
	Management	
	Marketing	

Required Core Courses

Code	Title	Credit Hours
Required Core Courses ¹		
FINC-619	Financial Management	4
ISYS-669	Enterprise Information System Models	4
MGMT-629	Management Science	4
MGMT-639	Managing People & Organization	4
MGMT-659	Strategy	4
or MGMT-693	Internship in Management	
MGMT-661	Operations Management	4
MRKT-679	Marketing Management	4

Certificate

Select three (3) 4-credit courses in one of the certificate areas listed. ²	12
Total Credit Hours	40

Certificates

Code	Title	Credit Hours
Global Leadership Certificate (Available Online Only) ³		
BUSN-689	Organizational Behavior	4
MGMT-649	Ethics and Leadership	4
MGMT-679	Leadership	4
<i>Credit Hours Subtotal:</i>		12

Operations Management Certificate

MGMT-661	Operations Management	4
or IME-676	Lean Six Sigma	
MGMT-609	Technology Management	4
MGMT-619	Project Management	4
<i>Credit Hours Subtotal:</i>		12

Supply Chain and ERP Certificate (Available On-Campus Only)

IME-652	Production System Design	4
IME-654	Enterprise Resource Planning	4
MGMT-669	Supply Chain Management	4
or IME-653	Supply Chain Design	
<i>Credit Hours Subtotal:</i>		12

Lean Principles for Healthcare Certificate (Available Online Only)

IME-656	Engineering for Healthcare Systems	4
IME-676	Lean Six Sigma	4

or MGMT-669	Supply Chain Management	
HMG-609	Healthcare Management	4
<i>Credit Hours Subtotal:</i>		12
Data Analytics Certificate		
CS-601	Programming Methods for Data Science	4
MGMT-623	Data Analytics	4
MGMT-624	Data Visualization	4
or MGMT-625	Digital Strategy and Competitive Advantage	
<i>Credit Hours Subtotal:</i>		12

¹ MGMT-693 is only available to on campus students.

² Students admitted to the BS-Masters program can count up to three (3) 400*/500-level courses taken as an undergraduate. *400 level courses must be part of an approved 400/600 course offering.

³ Students affiliated with the SACM program are not allowed to enroll in this certificate.