

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)

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|-------------------------------|------------------------------|----|
| 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 | |
| HMGT-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.