

# OPERATIONS MANAGEMENT, BS

*for the degree of Bachelor of Science in Operations Management*

The Operations Management (OM) Major prepares students for careers in manufacturing and service management, operations strategy consulting, purchasing and supply management, project management, and quality management. OM professionals work with most other units in any organization, more so with engineering, human resource management, information systems, and marketing. The OM curriculum focuses on analytical decision-making, logistics, new product development, operations strategy, process improvement, project management, quality control, and supply chain management. Students are trained in ways of developing, making, and delivering goods and services efficiently and effectively – generating value by satisfying ever-changing customer needs while improving profitability.

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## Core Curriculum

Normally, students must register for no fewer than 12 hours or more than 18 hours in each semester. Students should take mathematics, economics, and accountancy courses in the semesters indicated in the sample schedule of courses. The computer science course must be taken during the first year. The computer science requirement no longer allows ACE 161 as an equivalent course.

Up to 4 hours of Kinesiology activity courses, numbered 100-110 may be counted toward the 124 hours for the degree. The same section of a course may not be repeated for credit. Credit is limited to a maximum of 12 credit hours for 199 courses. Students may receive foreign language credit for courses only 2 levels below highest level taken in high school. For example: 4 years of high school French-no credit below FR 102.

Credit toward the 124 degree hours is not given for MATH 101. Once the math requirement is completed, lower level math courses cannot be taken for credit.

Any course used to fill a specific degree requirement may not be taken on the credit-no credit grade option. Only free electives may be taken on the credit-no credit option. All finance and accountancy courses must be taken for a grade. It is recommended that all courses taken in the business administration area be taken for a grade.

### Graduation Requirements

Minimum hours required for graduation: 124 hours.

### University Requirements

Minimum of 40 hours of upper-division coursework, generally at the 300- or 400-level. These hours can be drawn from all elements of the degree.

Students should consult their academic advisor for additional guidance in fulfilling this requirement.

The university and residency requirements can be found in the Student Code (<https://studentcode.illinois.edu/article3/part8/3-801/>) (§

3-801) and in the Academic Catalog (<http://catalog.illinois.edu/general-information/degree-general-education-requirements/>).

### General Education Requirements

Follows the campus General Education (Gen Ed) requirements (<https://courses.illinois.edu/gened/DEFAULT/DEFAULT/>). Some Gen Ed requirements may be met by courses required and/or electives in the program.

Code	Title	Hours
	Composition I	4-6
	Advanced Composition	3
	Humanities & the Arts (6 hours)	6
	Natural Sciences & Technology (6 hours)	6
	Social & Behavioral Sciences (6 hours)	6
	fulfilled by ECON 102 and ECON 103	
	Cultural Studies: Non-Western Cultures (1 course)	3
	Cultural Studies: U.S. Minority Cultures (1 course)	3
	Cultural Studies: Western/Comparative Cultures (1 course)	3
	Quantitative Reasoning (2 courses, at least one course must be Quantitative Reasoning I)	6-10
	fulfilled by CS 105; and MATH 115, MATH 220, MATH 221, MATH 231, MATH 234, or STAT 100	
	Language Requirement (Completion of the third semester or equivalent of a language other than English is required)	0-15

### Business Core Requirements

Code	Title	Hours
ACCY 201 & ACCY 202	Accounting and Accountancy I and Accounting and Accountancy II	6
BUS 101	Professional Responsibility and Business	3
BUS 201	Business Dynamics	3
BUS 301	Business in Action	3
BUS 401	Crafting Your Purpose in Business	3
BADM 210 & BADM 211	Business Analytics I and Business Analytics II	6
BADM 275	Fundamentals of Operations Management	3
BADM 300	The Legal Environment of Bus	3
BADM 310	Mgmt and Organizational Beh	3
BADM 320	Principles of Marketing	3
BADM 449	Business Policy and Strategy	3
CMN 101	Public Speaking	3
CS 105	Intro Computing: Non-Tech	3
ECON 102 & ECON 103	Microeconomic Principles and Macroeconomic Principles	6
FIN 221	Corporate Finance	3
<b>Business Core Math</b>		<b>3-5</b>

Choose one course from list below:

MATH 115	Preparation for Calculus
MATH 220	Calculus
MATH 221	Calculus I
MATH 231	Calculus II
MATH 234	Calculus for Business I

STAT 100	Statistics	
<b>Minimum Total Hours</b>		<b>57</b>
<b>Code</b>	<b>Title</b>	<b>Hours</b>
<b>Operations Management, BS Major Core Requirements and Electives</b>		
BADM 335	Supply Chain Management Basics	3
BADM 350	IT for Networked Organizations	3
BADM 374	Management Decision Models	3
BADM 375	Operations Strategy	3
BADM 377	Project Management	3
BADM 379	Business Process Improvement	3
<b>Major Electives (choose three):</b>		<b>9-10</b>
BADM 311	Leading Individuals and Teams	3
BADM 312	Designing and Managing Orgs	3
BADM 329	New Product Development	3
BADM 336	Modeling the Supply Chain	3
BADM 352	Database Design and Management	3
BADM 395	Special Topics (Sec. IOP )	3
BADM 353	Info Sys Analysis and Design	3
BADM 445	Small Business Consulting	4
BADM 453	Business Intelligence	3
<b>Total Hours</b>		<b>27</b>

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### Sample Sequence

This sample sequence is intended to be used only as a guide for degree completion. All students should work individually with their academic advisors to decide the actual course selection and sequence that works best for them based on their academic preparation and goals. Enrichment programming such as study abroad, minors, internships, and so on may impact the structure of this four-year plan. Course availability is not guaranteed during the semester indicated in the sample sequence.

Students must fulfill their Language Other Than English requirement by successfully completing a third level of a language other than English. See the corresponding section on the Degree and General Education Requirements page (<http://catalog.illinois.edu/general-information/degree-general-education-requirements/>).

### First Year

First Semester	Hours	Second Semester	Hours
BUS 101	3	ECON 103	3
ECON 102	3	CS 105	3
Composition I or CMN 101	4	FIN 221	3
Language Other than English (3rd level)	4	Composition I or CMN 101	3
Business Core Math	3	General Education course	4
<b>17</b>		<b>16</b>	

### Second Year

First Semester	Hours	Second Semester	Hours
BUS 201	3	BADM 211	3
BADM 210	3	BADM 275	3
ACCY 201	3	BADM 320	3
BADM 310	3	ACCY 202	3
General Education course	3	General Education course	4
<b>15</b>		<b>16</b>	

### Third Year

First Semester	Hours	Second Semester	Hours
BUS 301	3	BADM 374	3
BADM 335	3	BADM 375	3
BADM 350	3	BADM 300	3
BADM Major Elective	3	BADM Major Elective	3
General Education course	3	General Education course	3
<b>15</b>		<b>15</b>	

### Fourth Year

First Semester	Hours	Second Semester	Hours
BUS 401	3	BADM 449	3
BADM 377	3	BADM 379	3
BADM Major Elective	3	General Education course	3
General Education course	3	Free elective	3
General Education course	3	Free elective	3
<b>15</b>		<b>15</b>	

### Total Hours 124

for the degree of Bachelor of Science in Operations Management

1. Disciplinary Competence: Students demonstrate an understanding of fundamental operations concepts, key principles of its management, and relevant analysis approaches.
2. Critical Thinking: Students demonstrate the ability to understand a real-world unstructured problem, and gather necessary information and data to formulate into a structured problem.
3. Problem Solving: Students demonstrate ability to develop quantitative and qualitative analysis framework and solution methods, and appropriately implement them to obtain meaningful solutions.
4. Decision making: Students demonstrate ability to identify strengths and weaknesses of alternative solutions and obtain relevant managerial insights.
5. Communication: Students express themselves logically, persuasively and succinctly & using correct grammar and composition when communicating in oral or written form.

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**Overview of College Admissions & Requirements:** Gies Catalog (<http://catalog.illinois.edu/schools/gies-business/academic-units/>)

Gies College of Business website (<https://giesbusiness.illinois.edu/>)