

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.

Minimum hours required for graduation: 124 hours.

University Composition Requirements

Code	Title	Hours
	Composition I: Principles of Composition ¹	4-7
	Advanced Composition	3

General Education Requirements

Code	Title	Hours
	A minimum of six courses is required, as follows:	18
	Humanities & the Arts: Literature & the Arts (1-2 courses) ⁴	
	Humanities & the Arts: Historical & Philosophical Perspectives (1-2 courses) ⁴	
	Natural Sciences & Technology: Physical Sciences (0-2 courses) ⁵	
	Natural Sciences & Technology: Life Sciences (0-2 courses) ⁵	
	Behavioral Sciences (1 course)	
	Cultural Studies: Non-Western Cultures (1 course)	
	Cultural Studies: U.S. Minorities Cultures (1 course)	
	Cultural Studies: Western/Comparative Cultures (1 course)	
	Quantitative Reasoning (2 courses) ⁷	

Language Other Than English

Code	Title	Hours
	Completion of the third semester or equivalent of a language other than English is required. Completion of three years of a single language in high school satisfies this requirement.	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 ²	3
BUS 201	Business Dynamics	3
BUS 301	Business in Action	3
BUS 401	Global Business Perspectives	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 ⁶	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
Total Hours		54

¹ For a list of the specific courses that meet this requirement, see the college Office of Undergraduate Affairs in 1055 Business Instructional Facility or see the Course Explorer for a list of approved general education courses.

² BUS 101, BUS 201, BUS 301 and BUS 401 are required for all Gies College of Business students. Students who enter the College their first year take each sequential course every fall. Inter-College transfer students take BUS 301 and BUS 401 in their sophomore year. Off-campus transfer students take BUS 101 and BUS 201 in their junior year.

⁴ Three courses in the Humanities & the Arts area are required and students must complete at least one course in the Literature & the Arts and Historical & Perspectives subcategories. At least one of the courses must be a 200 or higher level course.

⁵ Two courses in the Natural Sciences & Technology area are required. It is strongly recommended that students complete one course in the Physical Sciences and Life Sciences subcategories.

⁶ This course includes limited voluntary participation as a subject in experiments.

⁷ CS 105 fulfills a Quantitative Reasoning I requirement.

Code	Title	Hours
OM core requirements		18
BADM 335	Supply Chain Management Basics	3
BADM 350	IT for Networked Organizations	3
BADM 374	Management Decision Models (Prerequisite: ECON 203)	3
BADM 375	Operations Strategy	3
BADM 377	Project Management	3
BADM 379	Business Process Improvement	3
Choose three elective courses		9
BADM 311	Leading Individuals and Teams	3
BADM 312	Designing and Managing Orgs	3
BADM 329	New Product Development (Prerequisite: BADM 320)	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 (Prerequisite: BADM 350)	3
BADM 445	Small Business Consulting	4

BADM 453	Business Intelligence	3
Total Hours		27

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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/>)
college website: <https://giesbusiness.illinois.edu/> (<https://business.illinois.edu/>)