

Business Administration (BS): Operations/Supply Chain Management

To see more about what you will learn in this program, visit the Learning Outcomes website (<https://apps.oirp.ncsu.edu/pgas/>)!

The field of operations and supply chain management focuses on creating efficiencies in an organization's global "supply chain" – the network of interconnected businesses and activities involved in getting the organization's products or services to the end users. Supply chain management spans the sourcing of raw materials and components, their movements and storage, work-in-process inventory, and finished goods/services from point-of-origin to point-of-consumption. The focus is improving the way the organization coordinates and integrates these "flows" within and among organizations.

Curriculum Overview

Students concentrating in operations and supply chain learn how to develop and evaluate business processes, perform strategic and tactical supply chain planning, and manage the activities and resources that transform inputs into finished goods and services.

The operations and supply chain concentration is designed to prepare students in the following areas:

- Knowledge of how goods, services, finances and information flow through the supply chain
- Analysis and resolution of customer and supplier business problems
- Analysis and improvement of business processes to improve customer satisfaction and business performance
- Understanding of how to link suppliers, internal customers, and external customers to create value
- Resolution of real-world supply chain problems through project work with partner companies in the Supply Chain Resource Cooperative (<https://scm.ncsu.edu/>)

Contact

Business Management

Poole College of Management

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Raleigh, NC 27695

919.515.5565

Website (<https://poole.ncsu.edu/business-management/>)

Jonathan Bohlmann

Interim Department Head

Plan Requirements

Overall GPA for all courses attempted at NC State must be 2.0 or higher; and

Overall GPA for all BUS, MIE, and M courses attempted at NC State must be 2.0 or higher.

Code	Title	Hours	Counts towards
Humanities and Social Sciences			
Acad Writing Research (p. 3)	¹	4	
Select one of the following:		3	
COM 110	Public Speaking		
COM 112	Interpersonal Communication		
COM 211	Argumentation and Advocacy		
PSY 200	Introduction to Psychology	3	
Select one of the following: ¹		3	
ARE 201	Introduction to Agricultural & Resource Economics		
ARE 201A	Introduction to Agricultural & Resource Economics		
EC 201	Principles of Microeconomics		
EC 202	Principles of Macroeconomics	3	
Select one of the following:		3	
ENG 331	Communication for Engineering and Technology		
ENG 332	Communication for Business and Management		
ENG 333	Communication for Science and Research		
GEP Humanities (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/)		6	
Students must also take one course from the Poole College of Management Ethics list (no credit hour requirement); If a student takes a PHI course to satisfy the Ethics requirement, it may double-count as the second humanities course provided the first course was not also a PHI course.			
GEP Additional Breadth (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/) (Humanities/Social Sciences/Visual and Performing Arts)		3	
Select one of the following: (verify requirement)			
MIE 306	Managing Ethics in Organizations		

PHI 214	Issues in Business Ethics	
PHI 221	Contemporary Moral Issues	
PHI 313	Ethical Problems in the Law	
PHI 375	Ethics	
Foreign Language Proficiency (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/foreign-language-proficiency/) (verify requirement)		
Mathematical and Natural Sciences		
GEP Natural Sciences (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/)		7
Select one of the following: ¹		3
MA 131 or MA 141 are encouraged for students who qualify and aspire to take additional calculus. For students completing MA 141, one credit of MA 141 will count as free elective credit.		
MA 121	Elements of Calculus	
MA 131	Calculus for Life and Management Sciences A	
MA 141	Calculus I	
MA 114	Introduction to Finite Mathematics with Applications	3
or MA 242	Calculus III	
Select one of the following: ¹		3
BUS 350	Economics and Business Statistics	
ST 350	Economics and Business Statistics	
ST 312	Introduction to Statistics II	
ST 370	Probability and Statistics for Engineers	
ST 372	Introduction to Statistical Inference and Regression	
BUS 351	Predictive Analytics for Business	3

ST 307	Introduction to Statistical Programming-SAS	1
or ST 308	Introduction to Statistical Programming - R	

Interdisciplinary Perspectives

GEP Interdisciplinary Perspectives (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/)	2
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Physical Education

GEP Health and Exercise Studies (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/)	2
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Corequisites

GEP U.S. Diversity (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-us-diversity/) (verify requirement)	
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GEP Global Knowledge (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-global-knowledge/) (verify requirement)	
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Major Requirements

M 100	Personal and Professional Identity Development	1
MIE 201	Introduction to Business Processes	3
ACC 210	Concepts of Financial Reporting ¹	3
ACC 220	Introduction to Managerial Accounting ¹	3
MIE 310	Introduction to Entrepreneurship	3
BUS 320	Financial Management	3
MIE 330	Human Resource Management	3
BUS 340	Information Systems Management	3
BUS 360	Marketing Methods	3
BUS 370	Operations and Supply Chain Management	3

MIE 305	Legal and Regulatory Environment	3
MIE 480	Business Policy and Strategy	3
Concentration		
BUS 470	Operations Modeling and Analysis	3
Select two of the following:		6
BUS 472	Operations Planning and Control Systems	
BUS 474	Logistics Management	
BUS 475	Purchasing and Supply Management	
Select one of the following:		3
ACC 420	Cost Accounting for Effective Management	
BUS 472	Operations Planning and Control Systems	
BUS 473	Supply Chain Strategy	
BUS 474	Logistics Management	
BUS 475	Purchasing and Supply Management	
BUS 479	Supply Chain Management Undergraduate Practicum	
Free Electives		
Free Electives (12 Hr S/U Lmt) ^{2,3}		22
Total Hours		120

¹ C- or better

² Students should consult their academic advisors to determine which courses fill this requirement.

³ Some courses will not count as free electives, such as FL 101, or 105 (in the language in which proficiency requirement is met), or MA 101, 103, 105. (12 hours of free electives may be taken for credit only.)

Acad Writing Research

Code	Title	Hours	Counts towards
Acad Writing Research			
ENG 101	Academic Writing and Research	4	
FLE 101	Academic Writing and Research	4	

Transfer Sequence

ENG 202	Disciplinary Perspectives in Writing	3
ENG 1GEP	100 Level English Composition	3

Semester Sequence

This is a sample.

First Year

Fall Semester		Hours
M 100	Personal and Professional Identity Development	1
ENG 101	Academic Writing and Research (or GEP Natural Sciences (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/) with Lab) ¹	4
Select one of the following: ¹		3
MA 121	Elements of Calculus	
MA 131	Calculus for Life and Management Sciences A	
MA 141	Calculus I	
MIE 201	Introduction to Business Processes	3
GEP Health and Exercise Studies (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/)		1
Free Elective		3
Hours		15

Spring Semester

MA 114 or MA 242	Introduction to Finite Mathematics with Applications or Calculus III	3
COM 110 or COM 112 or COM 211	Public Speaking or Interpersonal Communication or Argumentation and Advocacy	3
ENG 101	Academic Writing and Research (or GEP Natural Sciences (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/) with Lab) ¹	4
EC 201 or ARE 201	Principles of Microeconomics ¹ or Introduction to Agricultural & Resource Economics	3
ACC 210	Concepts of Financial Reporting ¹	3
Hours		16

Second Year

Fall Semester		Hours
ACC 220	Introduction to Managerial Accounting ¹	3
GEP Humanities (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/)		3
BUS/ST 350	Economics and Business Statistics ¹	3
GEP Natural Sciences (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/)		3
EC 202	Principles of Macroeconomics	3

GEP Health and Exercise Studies (<http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/>) 1

Hours 16

Spring Semester

Select three of the following: 9

BUS 320 Financial Management

BUS 340 Information Systems Management

BUS 360 Marketing Methods

BUS 370 Operations and Supply Chain Management

MIE 305 Legal and Regulatory Environment

MIE 310 Introduction to Entrepreneurship

MIE 330 Human Resource Management

PSY 200 Introduction to Psychology 3

GEP Additional Breadth (<http://catalog.ncsu.edu/undergraduate/gep-category-requirements/>) (Humanities/Social Sciences/Visual and Performing Arts) 3

ST 307 Introduction to Statistical Programming-SAS 1

Hours 16

Third Year

Fall Semester

Select two of the following: 6

BUS 320 Financial Management

BUS 340 Information Systems Management

BUS 360 Marketing Methods

BUS 370 Operations and Supply Chain Management

MIE 305 Legal and Regulatory Environment

MIE 310 Introduction to Entrepreneurship

MIE 330 Human Resource Management

Select one of the following: 3

ENG 331 Communication for Engineering and Technology

ENG 332 Communication for Business and Management

ENG 333 Communication for Science and Research

Free Electives 6

Hours 15

Spring Semester

Select two of the following: 6

BUS 320 Financial Management

BUS 340 Information Systems Management

BUS 360 Marketing Methods

BUS 370 Operations and Supply Chain Management

MIE 305 Legal and Regulatory Environment

MIE 310 Introduction to Entrepreneurship

MIE 330 Human Resource Management

Concentration course 3

Free Electives 6

Hours 15

Fourth Year

Fall Semester

Select two Concentration courses 6

GEP Interdisciplinary Perspectives (<http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/>) 2

GEP Humanities (<http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/>) 3

Free Elective 4

Hours 15

Spring Semester

MIE 480 Business Policy and Strategy 3

Concentration course 3

Free Electives 6

Hours 12

Total Hours 120

¹ Must be completed with "C-" or better.

GPA Graduation Requirements

- Overall GPA *for all courses* attempted at NC State must be 2.0 or higher; and
- Overall GPA *for all BUS, MIE, and M courses* attempted at NC State must be 2.0 or higher.

Career Opportunities

Graduates in business administration are prepared for a variety of careers in business or industry including new product development, marketing, manufacturing, human resources, IT management, business analysis, banking and finance, consulting, and business development. They have the knowledge and tools to launch new business ideas and succeed in management positions.