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 2300 Nelson Hall 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
	Social Sciences		
Acad Writing Res		4	
Select one of the		3	
COM 110 COM 112	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:// 6 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 US Diversity, Equity, and Inclusion (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-usdei/)		3	
Select one of the requirement)	following: (verify		
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 Languag (http://catalog.nc: undergraduate/ge requirements/fore proficiency/) (veri	su.edu/ ep-category- eign-language- fy requirement)	
Mathematical ar Sciences	nd Natural	
GEP Natural Scie catalog.ncsu.edu gep-category-req natural-sciences/	/undergraduate/ uirements/gep-	7
Select one of the	following: 1	3
qualify and aspanditional calc	or students who pire to take culus. For students A 141, one credit count as free	
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 Select one of the	Calculus III	3
BUS 350	Economics and Business Statistics	3
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	Introduction to Business Analytics	3
ST 307	Introduction to Statistical Programming- SAS	1

or ST 308	Introduction to Statistical Programming - R			
Interdisciplinary Perspectives				
GEP Interdisciplinary Perspectives 2 (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/gep-interdisciplinary- perspectives/)				
Physical Educati	ion			
GEP Health and Exercise 2 Studies (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/gep-health-exercise- studies/)				
Corequisites				
GEP Global Know catalog.ncsu.edu/ gep-category-requ gep-global-knowle requirement)	undergraduate/ uirements/			
Major Requireme	ents			
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 474	Logistics Management		
BUS 476	Decision Modeling and Analysis	3	
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		123	

¹ C- or better

Acad Writing Research

Code Acad Writing Re	Title search	Hours	Counts towards
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		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 follo		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
undergraduate/gep-cstudies/)	ercise Studies (http://catalog.ncsu.edu/ category-requirements/gep-health-exercise-	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	Public Speaking	3
or COM 112 or COM 211	or Interpersonal Communication or Argumentation and Advocacy	
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		
ACC 220	Introduction to Managerial Accounting ¹	3
GEP Humanities (htt	p://catalog.ncsu.edu/undergraduate/gep-	3
category-requiremen		
BUS/ST 350	Economics and Business Statistics ¹	3
	es (http://catalog.ncsu.edu/undergraduate/	3
0 , 0 , 1	ements/gep-natural-sciences/)	2
EC 202	Principles of Macroeconomics ercise Studies (http://catalog.ncsu.edu/	3 1
	category-requirements/gep-health-exercise-	
Spring Semester	Hours	16
Select three of the fo	ollowina:	9
BUS 320	Financial Management	J
BUS 340	Information Systems Management	
BUS 360	Marketing Methods	
BUS 370	Operations and Supply Chain Management	
MIE 305	Legal and Regulatory Environment	

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

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.)

		Hours	16
		Programming - R	
		or Introduction to Statistical	
	or ST 308	SAS	
	ST 307	Introduction to Statistical Programming-	1
GEP US Diversity, Equity, and Inclusion (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-usdei/)			3
	PSY 200	Introduction to Psychology	3
	MIE 330	Human Resource Management	
	MIE 310 Introduction to Entrepreneurship		

Third Year

Fall Semester

Fall Semester		
Select two of the fo	llowing:	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 fo	ollowing:	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 fo	llowing:	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 cour	se	3
Free Electives		6
	Hours	15
Fourth Year		
Fall Semester		
Select two Concent	tration courses	6
GEP Interdisciplina	ry Perspectives (http://catalog.ncsu.edu/	2
undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/)		
•	http://catalog.ncsu.edu/undergraduate/gepents/gep-humanities/)	3
Free Elective		4
	Hours	15
Spring Semester		
MIE 480	Business Policy and Strategy	3
Concentration cour	se	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.