

Accounting (BS): Information Systems Concentration

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 accounting information systems focuses on the flow of accounting information within a company and between a company and its external trading partners. Accounting is at the heart of a company's information system, supporting critical business processes. Organizations use information systems and technology to process and analyze data, streamline activities, and manage resources and assets.

Curriculum Overview:

The information systems concentration, in accounting, is designed to build an understanding of key business processes, the components of an effective entity-wide internal control structure, the process by which efficient database design can be used to improve accounting information, and contemporary issues involved in providing assurance services for systems and database reliability. Topics of study include information systems-related internal controls, business processes, systems security and privacy, database management, e-commerce and enterprise resource planning systems theory.

The information systems concentration is designed to prepare students in the following areas:

- Proficiency in accounting software
- Knowledge and use of enterprise resource planning software
- Database modeling and development
- Understanding of business processes and information systems controls
- Conceptual orientation of information for managerial and financial decisions

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Plan Requirements

Code	Title	Hours
Humanities and Social Sciences		
	Acad Writing Research (p. 2) ¹	4
	Foreign Language 201 (p. 2)	3
	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: 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

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	

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 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: 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

Interdisciplinary Perspectives

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

Physical Education

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

Corequisites

GEP U.S. Diversity (<http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-us-diversity/>) (verify requirement)

GEP Global Knowledge (<http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-global-knowledge/>) (verify requirement)

Major Requirements (Non-Acc)

M 100 Personal and Professional Identity Development 1

MIE 201	Introduction to Business Processes	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
Major Requirements (Acc)		
ACC 210	Concepts of Financial Reporting ²	3
ACC 220	Introduction to Managerial Accounting ¹	3
ACC 310	Intermediate Financial Accounting I ¹	3
ACC 311	Intermediate Financial Accounting II ¹	3
ACC 330	An Introduction To Income Taxation ¹	3
ACC 340	Accounting Information Systems ¹	3
ACC 450	Auditing and Assurance Services	3
Concentration		
ACC 440	Enterprise Resource Planning Systems	3
Concentration Electives (p. 2)		6
Free Electives		
Free Electives ³		10
Total Hours		120

¹ C- or better² C+ or better³ Students should consult their academic advisors to determine how to complete this requirement.

Acad Writing Research

Code	Title	Hours
Acad Writing Research		
ENG 101	Academic Writing and Research	4
FLE 101	Academic Writing and Research	4
Transfer Sequence		
ENG 1GEP	100 Level English Composition	3
ENG 202	Disciplinary Perspectives in Writing	3

Foreign Language 201

Code	Title	Hours
FLA 201	Intermediate Arabic I	3
FLC 201	Intermediate Chinese I	3
FLF 201	Intermediate French I	3
FLF 212	French: Language, Culture, and Technology	3
FLG 201	Intermediate German I	3
FLG 212	German Language, Culture, Science, and Technology	3
FLI 201	Intermediate Italian I	3
FLJ 201	Intermediate Japanese I	3
FLN 201	Intermediate Hindi-Urdu I	3
FLP 201	Intermediate Portuguese I	3
FLR 201	Intermediate Russian I	3
FLS 201	Intermediate Spanish I	3
FLS 212	Spanish: Language, Technology, Culture	3

GRK 201	Intermediate Greek I	3
LAT 201	Intermediate Latin I	3
PER 201	Intermediate Persian I	3

Concentration Electives

Code	Title	Hours
Concentration Electives 2171 (Min: 6 Units)		
BUS 440	Database Management	3
BUS 441	Business Data Communications and Networking	3
BUS 442	Information Systems Development	3
BUS 444	Systems Analysis and Design	3
BUS 449	Information Technology Capstone	3
BUS 458	Analytics: From Data to Decisions	3
BUS 459	Business Analytics Practicum	3

Semester Sequence

This is a sample.

Course	Title	Hours
First Year		
Fall Semester		
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:		3
MA 121	Elements of Calculus	
MA 131	Calculus for Life and Management Sciences A	
MA 141	Calculus I	
FLx 201		3
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
Hours		15
Spring Semester		
MA 114 or MA 242	Introduction to Finite Mathematics with Applications or Calculus III	3
Select one of the following:		3
COM 110	Public Speaking	
COM 112	Interpersonal Communication	
COM 211	Argumentation and Advocacy	
GEP Humanities (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/)		
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 or Introduction to Agricultural & Resource Economics	3

ACC 210	Concepts of Financial Reporting	3
	Hours	16

Second Year**Fall Semester**

ACC 220	Introduction to Managerial Accounting	3
Select one of the following:		3

COM 110	Public Speaking (GEP Humanities (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/))	
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COM 112	Interpersonal Communication (GEP Humanities (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/))	
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COM 211	Argumentation and Advocacy (GEP Humanities (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/))	
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GEP Humanities (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/)		
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BUS/ST 350	Economics and Business Statistics	3
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GEP Natural Sciences (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/)		3
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EC 202	Principles of Macroeconomics	3
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	Hours	15
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Spring Semester

ACC 310	Intermediate Financial Accounting I	3
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BUS 340	Information Systems Management	3
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Select one of the following:		3
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BUS 320	Financial Management	
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BUS 360	Marketing Methods	
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BUS 370	Operations and Supply Chain Management	
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MIE 305	Legal and Regulatory Environment	
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MIE 330	Human Resource Management	
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PSY 200	Introduction to Psychology	3
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GEP Additional Breadth (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/) (Humanities/Social Sciences/Visual and Performing Arts)		3
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ST 307	Introduction to Statistical Programming-SAS	1
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	Hours	16
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Third Year**Fall Semester**

ACC 311	Intermediate Financial Accounting II	3
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ACC 340	Accounting Information Systems	3
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Select two of the following:		6
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BUS 320	Financial Management	
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BUS 360	Marketing Methods	
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BUS 370	Operations and Supply Chain Management	
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MIE 305	Legal and Regulatory Environment	
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MIE 330	Human Resource Management	
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Select one of the following:		3
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ENG 331	Communication for Engineering and Technology	
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ENG 332	Communication for Business and Management	
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ENG 333	Communication for Science and Research	
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GEP Health and Exercise Studies (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/)		1
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	Hours	16
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Spring Semester

ACC 330	An Introduction To Income Taxation	3
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Select two of the following:		6
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BUS 320	Financial Management	
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BUS 360	Marketing Methods	
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BUS 370	Operations and Supply Chain Management	
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MIE 305	Legal and Regulatory Environment	
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MIE 330	Human Resource Management	
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Concentration		3
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Free Elective		3
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	Hours	15
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Fourth Year**Fall Semester**

ACC 450	Auditing and Assurance Services	3
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Concentration		3
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GEP Interdisciplinary Perspectives (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/)		2
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Free Elective		4
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GEP Humanities (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/)		3
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	Hours	15
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Spring Semester

Concentration		3
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MIE 480	Business Policy and Strategy	3
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Free Electives		6
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	Hours	12
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	Total Hours	120
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¹ A grade of C- or better is required.

Students must also complete as a part of their general education requirements one course from the GEP U.S. Diversity list (no credit hour requirement) and one course from the GEP Global Knowledge list (no credit hour requirement).

GPA Graduation Requirements

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

Career Opportunities

The field of accounting deals with identifying, measuring and communicating information to assist individuals and companies in making informed economic decisions. Accounting provides students with excellent career opportunities. Individuals graduating with an accounting

degree can expect to be exposed to all aspects of an organization from a broad top-down perspective.