

ACCOUNTANCY + DATA SCIENCE, BS

for the degree of Bachelor of Science Major in Accountancy + Data Science

This major is sponsored by the Department of Accountancy in the Gies College of Business, in collaboration with the Departments of Statistics, Computer Science, iSchool, and Mathematics. The Accountancy +Data Science major is designed for students seeking to supplement their accounting foundation with a strong background in data science. The major prepares students for professional or graduate work in all Accounting fields, but particularly those focused on analytics.

for the degree of Bachelor of Science Major in Accountancy + Data Science

General education: Students must complete the Campus General Education (<https://courses.illinois.edu/>) requirements including the campus general education language requirement. Twelve hours of 300 and 400-level courses must be taken on this campus.

Minimum hours required for graduation: 124 hours

University Composition Requirement

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 (<https://courses.illinois.edu/gened/DEFAULT/DEFAULT/>) for a list of approved general education courses.

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

General Education Requirements

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.

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.

Code	Title	Hours
	A minimum of six courses is required, as follows:	18
	Humanities & the Arts: Literature & the Arts (1-2 courses)	
	Humanities & the Arts: Historical & Philosophical Perspectives (1-2 courses)	
	Natural Sciences & Technology: Physical Sciences (0-2 courses)	
	Natural Sciences & Technology: Life Sciences (0-2 courses)	
	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)	

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

Code	Title	Hours
ACCY 201 & ACCY 202	Accounting and Accountancy I and Accounting and Accountancy II	6
BADM 275	Fundamentals of Operations Management	3
BADM 300	The Legal Environment of Bus	3

BADM 310	Mgmt and Organizational Beh (This course includes limited voluntary participation as a subject in experiments)	3
BADM 320	Principles of Marketing	3
BADM 449	Business Policy and Strategy	3

Business Sequence

BUS 101, BUS 201, BUS 301 (under Meaningful Research) 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.

BUS 101	Professional Responsibility and Business	3
BUS 201	Business Dynamics	3
BUS 401	Global Business Perspectives	3
CMN 101	Public Speaking	3
ECON 102 & ECON 103	Microeconomic Principles and Macroeconomic Principles	6
FIN 221	Corporate Finance	3
Total Hours		42

Accounting Specialization

Code	Title	Hours
ACCY 301	Atg Measurement & Disclosure	3
ACCY 302	Decision Making for Atg	3
ACCY 303	Accounting Institutions and Regulation	3
ACCY 304	Accounting Control Systems	3
ACCY 312	Principles of Taxation	3
ACCY 405	Assurance and Attestation	3
ACCY 410 or ACCY 451	Advanced Financial Reporting Advanced Income Tax Problems	3 or 4
Total Hours		21

Data Science Core

Code	Title	Hours
Mathematical Foundations		7
MATH 234	Calculus for Business I	4
MATH 227 or MATH 257	Linear Algebra for Data Science Linear Algebra with Computational Applications	3
Data Science Fundamentals		12
STAT/CS/IS 107	Data Science Discovery	4
STAT 207	Data Science Exploration	4
CS 307	Modeling and Learning in Data Science	4
Computational Fundamentals		4
CS 277	Algorithms and Data Structures for Data Science	4
Social Impact in Data Science		6
IS 467	Ethics and Policy for Data Science	3
IS 477	Data Management, Curation & Reproducibility	3
Total Hours		29

Meaningful Research or Discovery Experience

Code	Title	Hours
	One of the most important skills a student will gain in an ACCY+DS degree will be the ability to present data in meaningful ways. A meaningful research and experience is as much a pillar of this degree program as both the core coursework and the area of specialization. This capstone experience can be fulfilled through BUS 301. This course is an active learning, real-client experience that will allow students to join their data science skills with their business skills.	
Total Hours		3

Summary of Total Hours

Code	Title	Hours
	Total General Education Hours	25
	Total Business Core Hours	42
	Total Accounting Specialization Hours	21
	Total Data Science Core Hours	29
	Meaningful Research or Discovery Experience	3
Total Hours		124

for the degree of Bachelor of Science Major in Accountancy + Data Science

department office: 360 Wohlers Hall, 1206 South Sixth, Champaign, IL 61820

phone: (217) 333-0857

college website: <https://giesbusiness.illinois.edu/>

department website: <https://giesbusiness.illinois.edu/accountancy/> (<https://giesbusiness.illinois.edu/accountancy/>) (<https://giesbusiness.illinois.edu/accountancy/>)

overview of college admissions & requirements: Gies Catalog (<http://catalog.illinois.edu/schools/gies-business/academic-units/>)

email: ACCY@illinois.edu (accy@illinois.edu)