

Economics (BS): Finance Concentration

All economics students complete core courses in microeconomics and macroeconomics, as well as specialized elective courses in labor economics, industrial organization, game theory, international economics, econometrics and finance. Poole's undergraduate economics program gives students the quantitative tools and critical thinking skills that prepare them for post-graduate study or careers in business, finance, government, public policy and more. What sets NC State's economics major apart is the training in analytical methods, and focus on economic theory and business skills, to provide students opportunities in many career paths.

Finance is at the core of every business in every industry. Whether an entrepreneur is developing a new business or growing an existing one, whether a corporation is launching a new product or a portfolio manager is considering new investments, finance provides tools to evaluate these decisions. At large, finance provides the framework for understanding how businesses, financial institutions as well as individual investors make decisions in accessing and deploying capital (money). As businesses are ever more complex, the tools to help make financial decisions become ever more important.

The concentration's curriculum explores the topics of financial analysis, capital markets and financial intermediaries, business and project evaluation, personal finance, and international finance – all of which prepare students to answer complex finance questions.

Contact

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Department Head and Professor
Department of Economics

Plan Requirements

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

Overall GPA *for all EC and ECG courses* attempted at NC State must be 2.0 or higher.

Code	Title	Hours
Requirements		
EC 205	Fundamentals of Economics	3
or EC 201	Principles of Microeconomics	
or ARE 201	Introduction to Agricultural & Resource Economics	
EC 301	Intermediate Microeconomics	3
EC 302	Intermediate Macroeconomics	3
EC 351	Econometrics I	3
EC 451	Econometrics II	3
EC 490	Research Seminar in Economics	3

Business Analytics

BUS 340	Information Systems Management	3
BUS 351	Introduction to Business Analytics	3

Economics Electives

400/500 Level Econ Electives (p. 2)	6
300/400/500 Level EC Electives (p. 2)	6

Humanities and Social Sciences

Acad Writing and Research (p. 2) ¹	4
GEP Social Sciences (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-social-sciences/)	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
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GEP Elective (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/)	3
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Mathematical and Natural Sciences

Natural Sciences Sequence (p. 3)		8
BUS/ST 350	Economics and Business Statistics	3
or ST 312	Introduction to Statistics II	
or ST 370	Probability and Statistics for Engineers	
or ST 372	Introduction to Statistical Inference and Regression	

GEP Natural Sciences (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/)	7
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MA 131	Calculus for Life and Management Sciences A ³	3
or MA 141	Calculus I	

MA 231	Calculus for Life and Management Sciences B	3
or MA 241	Calculus II	

MA 114	Introduction to Finite Mathematics with Applications	3
or MA 242	Calculus III	

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/)	5
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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 Global Knowledge (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-global-knowledge/) (verify requirement)	
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GEP Foundations of American Democracy (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-fad/) (verify requirement)	
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World Language Proficiency (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/world-language-proficiency/) (verify requirement)	
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Concentration

BUS 320	Financial Management	3
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BUS 420	Financial Management of Corporations	3
BUS 422	Investments and Portfolio Management	3
Concentration Electives- Select two of the following:		6
BUS 423	Advanced Investments	
BUS 425	Advanced Personal Financial Management	
BUS 426	International Financial Management	
BUS 427	Capital Markets Essentials	
BUS 428	Financial Analytics	
BUS 429	Financial Modeling	
Free Electives		
Free Electives (12 Hr S/U Lmt) ^{2,4}		15
Total Hours		120

¹ C- or better

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

³ The calculus requirement may be met by either of two sequences: MA 131 and MA 231 or MA 141 and 241. The MA 141 and 241 sequence is encouraged for students who qualify and aspire to take additional math. Students who choose the MA 141 and 241 sequence are strongly encouraged to take MA 242, which may substitute for MA 114.

⁴ Some courses will not count as free electives, such as WL 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.)

400/500 Level Econ Electives

Code	Title	Hours
ECG 515	Environmental and Resource Policy	3
ECG 528	Options and Derivatives Pricing	3
ECG 530	Topics in Labor Economics	3
ECG 537	Health Economics	3
ECG 540	Economic Development	3
ECG 548	International Economics	3
ECG 561	Applied Econometrics I	3
ECG 562	Applied Econometrics II	3
ECG 563	Applied Microeconometrics	3
ECG 590	Special Economics Topics	1-6
FIM 528	Options and Derivatives Pricing	3
MA 528	Options and Derivatives Pricing	3
MBA 528	Options and Derivatives Pricing	3
ST 561	Applied Econometrics I	3
Econ Electives II A		
EC 404	Money, Financial Markets, and the Economy	3
EC 410	Public Finance	3
EC 413	Industrial Organization	3
EC 431	Labor Economics	3
EC 437	Health Economics	3
EC 449	International Finance	3
EC 451	Econometrics II	3
EC 468	Game Theory	3
EC 474	Economics of Financial Institutions and Markets	3
EC 490	Research Seminar in Economics	3

EC 495	Special Topics in Economics	1-6
EC 498	Independent Study in Economics	1-6

300/400/500 Level EC Electives

Code	Title	Hours
Econ Electives I		
ARE 336	Introduction to Resource and Environmental Economics	3
EC 336	Introduction to Resource and Environmental Economics	3
Econ Electives I A		
ARE 336	Introduction to Resource and Environmental Economics	3
EC 305	A Closer Look at Capitalism	3
EC 336	Introduction to Resource and Environmental Economics	3
EC 348	Introduction to International Economics	3
EC 351	Econometrics I	3
Econ Electives II		
ECG 515	Environmental and Resource Policy	3
ECG 528	Options and Derivatives Pricing	3
ECG 530	Topics in Labor Economics	3
ECG 537	Health Economics	3
ECG 540	Economic Development	3
ECG 548	International Economics	3
ECG 561	Applied Econometrics I	3
ECG 562	Applied Econometrics II	3
ECG 563	Applied Microeconometrics	3
ECG 590	Special Economics Topics	1-6
FIM 528	Options and Derivatives Pricing	3
MA 528	Options and Derivatives Pricing	3
MBA 528	Options and Derivatives Pricing	3
ST 561	Applied Econometrics I	3
Econ Electives II A		
EC 404	Money, Financial Markets, and the Economy	3
EC 410	Public Finance	3
EC 413	Industrial Organization	3
EC 431	Labor Economics	3
EC 437	Health Economics	3
EC 449	International Finance	3
EC 451	Econometrics II	3
EC 468	Game Theory	3
EC 474	Economics of Financial Institutions and Markets	3
EC 490	Research Seminar in Economics	3
EC 495	Special Topics in Economics	1-6
EC 498	Independent Study in Economics	1-6

Acad Writing and Research

Code	Title	Hours
Acad Writing Research		
ENG 101	Academic Writing and Research	4
WLEN 101	Academic Writing and Research	4
Transfer Sequence		

ENG 202	Disciplinary Perspectives in Writing	3
ENG 1GEP	Course ENG 1GEP Not Found	3

Natural Science Sequence

Code	Title	Hours
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Chemistry Sequence

CH 101	Chemistry - A Molecular Science	3
CH 102	General Chemistry Laboratory	1
CH 201	Chemistry - A Quantitative Science	3
CH 202	Quantitative Chemistry Laboratory	1

Geology Sequence

MEA 101	Geology I: Physical	3
MEA 110	Geology I Laboratory	1
MEA 202	Geology II: Historical	3
MEA 211	Geology II Laboratory	1

Physics I Sequence

PY 201	University Physics I	4
PY 202	University Physics II	4

Physics II Sequence

PY 205	Physics for Engineers and Scientists I	4
PY 206	Physics for Engineers and Scientists I Laboratory	1
PY 208	Physics for Engineers and Scientists II	4
PY 209	Physics for Engineers and Scientists II Laboratory	1

Physics III Sequence

PY 211	College Physics I	4
PY 212	College Physics II	4

Zoology Sequence

Biology Sequence

BIO 181	Introductory Biology: Ecology, Evolution, and Biodiversity	4
BIO 183	Introductory Biology: Cellular and Molecular Biology	4

First Year

Fall Semester	Hours
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ENG 101	Academic Writing and Research ¹	4
GEP Humanities (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/)		3
MA 131 or MA 141	Calculus for Life and Management Sciences A ² or Calculus I	3
GEP Natural Sciences (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/) (Sequence)		4
GEP Health and Exercise Studies (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/)		1
FL Proficiency		0

Hours 15

Spring Semester

EC 205 or EC 201 or ARE 201	Fundamentals of Economics or Principles of Microeconomics or Introduction to Agricultural & Resource Economics	3
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GEP Natural Sciences (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/) (Sequence)		4
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GEP Humanities (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/)		3
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MA 231 or MA 241	Calculus for Life and Management Sciences B ² or Calculus II	3
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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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Global Knowledge		0
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Hours 14

Second Year

Fall Semester

EC 301	Intermediate Microeconomics	3
BUS 340	Information Systems Management	3
MA 114 or MA 242	Introduction to Finite Mathematics with Applications or Calculus III	3

GEP Natural Sciences (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/)		4
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GEP Interdisciplinary Perspectives (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/)		3
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Hours 16

Spring Semester

ST/BUS 350	Economics and Business Statistics	3
EC 302	Intermediate Macroeconomics	3
BUS 320	Financial Management	3
BUS 351	Introduction to Business Analytics	3
GEP Elective (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/)		3

Hours 15

Third Year

Fall Semester

EC 351	Econometrics I	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	

Economics Elective (p. 1)		3
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BUS 420	Financial Management of Corporations	3
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GEP Interdisciplinary Perspectives (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/)		2
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ST 307 or ST 308	Introduction to Statistical Programming-SAS or Introduction to Statistical Programming - R	1
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Hours 15

Spring Semester

EC 451	Econometrics II	3
Economics Elective (p. 1)		3

BUS 422	Investments and Portfolio Management	3
Free Electives		6
Hours		15
Fourth Year		
Fall Semester		
Economics Electives (p. 1)		6
Concentration Elective		3
GEP Social Sciences (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-social-sciences/)		3
GEP Natural Sciences (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/)		3
Hours		15
Spring Semester		
EC 490	Research Seminar in Economics	3
Concentration Elective		3
Free Electives		9
Hours		15
Total Hours		120

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

² The calculus requirement may be met by either of two sequences: MA 131 and MA 231 or MA 141 and 241. The MA 141 and 241 sequence is encouraged for students who qualify and aspire to take additional math. Students who choose the MA 141 and 241 sequence are strongly encouraged to take MA 242, which may substitute for MA 114.

GPA Graduation Requirements

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

Career Opportunities

An undergraduate degree in economics has long served as the foundation for advanced professional degrees in law and business, graduate study in economics, as well as jobs in business, industry and government.

Career Titles

- Actuary
- Administrative Service Manager
- Business Professor
- Community Outreach Manager
- Compensation Administrator
- Compensation Specialist
- Customer Service Supervisor
- Economics Professor
- Economist
- Employment Administrator
- Environmental Economists
- Environmental Research Analyst
- Equal Opportunity Representative
- Event / Convention Planner
- Financial Analyst
- Financial Examiner
- Financial Planner
- Fundraising Manager
- Government Budget Analyst
- Government Service Executives
- Insurance Claim Examiner
- Intelligence Specialist (Government)
- Internal Auditor
- Investment Fund Managers
- Management Analyst
- Market Research Analyst
- Marketing Managers
- Occupational Analyst
- Operations Research Analyst
- Personnel Administrator
- Product Planner
- Public Relations Manager
- Public Relations Specialist
- Retail Buyer
- Retail Sales Department Supervisor
- Social and Community Service Managers
- Sociologist
- Survey Researchers
- Tax Assessor
- Transportation Planners
- Urban and Regional Planner

Learn More About Careers

NCCareers.org (<https://nccareers.org/>)

Explore North Carolina's central online resource for students, parents, educators, job seekers and career counselors looking for high quality job and career information.

Occupational Outlook Handbook (<https://www.bls.gov/ooh/>)

Browse the Occupational Outlook Handbook published by the Bureau of Labor Statistics to view state and area employment and wage statistics. You can also identify and compare similar occupations based on your interests.

Career One Stop Videos (<https://www.careeronestop.org/>)

View videos that provide career details and information on wages, employment trends, skills needed, and more for any occupation. Sponsored by the U.S. Department of Labor.

Focus 2 Career Assessment (<https://careers.dasa.ncsu.edu/explore-careers/career-assessments/>) (NC State student email address required)
This career, major and education planning system is available to current NC State students to learn about how your values, interests, competencies, and personality fit into the NC State majors and your future career. An NC State email address is required to create an account. Make an appointment with your career counselor (<https://careers.dasa.ncsu.edu/about/hours-appointments/>) to discuss the results.

Focus 2 Apply Assessment (<https://www.focus2career.com/Portal/Register.cfm?SID=1929>) (Available to prospective students)

A career assessment tool designed to support prospective students in exploring and choosing the right major and career path based on your

unique personality, interests, skills and values. Get started with Focus 2 Apply and see how it can guide your journey at NC State.

American Economic Association (<https://www.aeaweb.org/students/Careers.php>)