

Economics (BS)

Economics students can develop their understanding of economic issues in a variety of areas including: econometrics, game theory, health economics, industrial organization, international economics, labor economics, money and financial institutions, public finance, resource and environmental economics.

A degree in economics provides rigorous analytical training with a broad understanding of the workings of the global economic system. Its flexibility allows students to tailor their education to specific interests and career goals. The undergraduate programs in economics prepare a student for careers in business and government as well as for many graduate and professional degree programs.

Both economics degrees require that students complete 120 credits towards the degree. All Economics majors are subject to the university and college's residency requirements. Additionally, students in the Economics majors (B.A. or B.S.) must earn at least 1/2 of their required economics (EC) credits while enrolled in the curriculum, and students must complete at least one-half of the required economics credit hours (EC courses) at NC State University.

Contact

Poole College of Management

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Website (<https://poole.ncsu.edu/economics/>)

Denis Pelletier

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 201	Principles of Microeconomics	3
or EC 205	Fundamentals of Economics	
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. 3) 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
GEP Elective (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/)	3
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
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
Physical Education	
GEP Health and Exercise Studies (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/)	2
Corequisites	
GEP Global Knowledge (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-global-knowledge/) (verify requirement)	
GEP Foundations of American Democracy (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-fad/) (verify requirement)	
World Language Proficiency (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/world-language-proficiency/) (verify requirement)	
Advised Electives	
Advised Electives ^{2,5}	15
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. Students who choose the second 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.)

⁵ Advised Electives: (15 credits) Students are urged to discuss these courses with their adviser and to consider using these electives to pursue a minor. Chosen from any university course offerings except WL 101 or 105 (in the language in which proficiency requirement is met), or MA 101, 103, 105, or HES courses. Certain courses may not be taken in combination with other courses of similar content - see catalog for instructions.

400/500 Level Econ Electives

Code	Title	Hours
ECG 505		3
ECG 506		3
ECG 512		3
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 580		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 480		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 505		3
ECG 506		3
ECG 512		3
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 580		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 480		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		3

Natural Science Sequence

Code	Title	Hours
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

Semester Sequence

This is a sample.

First Year

Fall Semester	Hours
ENG 101 Academic Writing and Research ¹	4
GEP Humanities (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/)	3
MA 131 Calculus for Life and Management or MA 141 Sciences A 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
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Hours	15
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Spring Semester

EC 205	Fundamentals of Economics	3
GEP Natural Sciences (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/) (Sequence)		4
GEP Humanities (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/)		3
MA 231 Calculus for Life and Management or MA 241 Sciences B or Calculus II		3
GEP Health and Exercise Studies (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/)		1

Hours	14
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Second Year

Fall Semester

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

ST/BUS 350	Economics and Business Statistics	3
EC 302	Intermediate Macroeconomics	3
BUS 351	Introduction to Business Analytics	3
GEP Elective (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/)		3
Free Electives		4

Hours	16
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Third Year

Fall Semester

EC 351	Econometrics I	3
Select one of the following:		3

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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Economics Elective (p. 1)		6
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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
Hours		15
Spring Semester		
EC 451	Econometrics II	3
Economics Electives (p. 1)		6
Free Electives		6
Hours		15
Fourth Year		
Fall Semester		
Economics Electives (p. 1)		3
Select two Advised Electives (p. 1)		6
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
Select two Advised Electives (p. 1)		6
Free Electives		5
Hours		14
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* 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>)