

# Economics (BS)

To see more about what you will learn in this program, visit the Learning Outcomes website (<https://apps.oirp.ncsu.edu/pgas/>)!

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

4172 Nelson Hall  
Raleigh, NC 27695  
919.515.5565  
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	Counts towards 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
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### Business Analytics

BUS 340	Information Systems Management	3
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BUS 351	Predictive Analytics for Business	3
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### Economics Electives

400/500 Level Econ Electives (p. 2)		6
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300/400/500 Level EC Electives (p. 3)		6
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### Humanities and Social Sciences

Acad Writing and Research (p. 4) <sup>1</sup>		4
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GEP Social Sciences ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-social-sciences/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-social-sciences/</a> )		3
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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 Humanities ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/</a> )		6
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GEP US Diversity, Equity, and Inclusion ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-usdei/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-usdei/</a> )		3
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### Mathematical and Natural Sciences

Natural Sciences Sequence (p. 4)		8
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BUS/ST 350	Economics and Business Statistics	3
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or ST 312	Introduction to Statistics II	
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or ST 370	Probability and Statistics for Engineers	
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or ST 372	Introduction to Statistical Inference and Regression	
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GEP Natural Sciences ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/</a> )		7
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MA 131	Calculus for Life and Management Sciences A <sup>3</sup>	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	
Quantitative Elective (p. 4)		3
ST 307	Introduction to Statistical Programming-SAS	1
or ST 308	Introduction to Statistical Programming - R	

**Interdisciplinary Perspectives**

GEP Interdisciplinary Perspectives ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/</a> )	5
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**Physical Education**

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

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

Foreign Language Proficiency (<http://catalog.ncsu.edu/undergraduate/gep-category-requirements/foreign-language-proficiency/>) (verify requirement)

**Advised Electives**

Advised Electives <sup>2,5</sup>	12
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**Free Electives**

Free Electives (12 Hr S/U Lmt) <sup>2,4</sup>	15
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<b>Total Hours</b>	<b>120</b>
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<sup>1</sup> C- or better

<sup>2</sup> Students should consult their academic advisors to determine which courses fill this requirement.

<sup>3</sup> 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.

<sup>4</sup> 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.)

<sup>5</sup> Advised Electives: (12 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 FL 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	Counts towards
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 Microeconomics	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	
<b>Econ Electives II A</b>			
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		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 Counts towards**

#### 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 Microeconomic	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
<b>Econ Electives II A</b>		
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		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
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## Acad Writing and Research

Code	Title	Hours	Counts towards
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### Acad Writing Research

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

## Natural Science Sequence

Code	Title	Hours	Counts towards
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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	3
PY 206	Physics for Engineers and Scientists I Laboratory	1

PY 208	Physics for Engineers and Scientists II	3
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

## Quantitative Elective

Code	Title	Hours	Counts towards
BMA 573	Mathematical Modeling of Physical and Biological Processes I	3	
BMA 574	Mathematical Modeling of Physical and Biological Processes II	3	
BUS 351	Predictive Analytics for Business	3	
CSC 416	Introduction to Combinatorics	3	
CSC 427	Introduction to Numerical Analysis I	3	
CSC 428	Introduction to Numerical Analysis II	3	
CSC 442	Introduction to Data Science	3	
CSC 565	Graph Theory	3	
CSC 580	Numerical Analysis I	3	
CSC 583	Introduction to Parallel Computing	3	
E 531	Dynamic Systems and Multivariable Control I	3	

EC 480		3
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 Microeconomic:	3
ECG 580		
ECG 590	Special Economics Topics	1-6
EMS 519	Teaching and Learning of Statistical Thinking	3
FIM 528	Options and Derivatives Pricing	3
FIM 548	Monte Carlo Methods for Financial Math	3
FIM 549	Financial Risk Analysis	3
GPH 404	Epidemiology and Statistics in Global Public Health	3
ISE 505	Linear Programming	3
LOG 335	Symbolic Logic	3
MA 205		3
MA 225	Foundations of Advanced Mathematics	3
MA 242	Calculus III	4
MA 302	Numerical Applications to Differential Equations	1
MA 303	Linear Analysis	3

MA 305	Introductory Linear Algebra and Matrices	3
MA 315	Mathematics Methods in Atmospheric Sciences	4
MA 325	Introduction to Applied Mathematics	3
MA 331	Differential Equations for the Life Sciences	3
MA 335	Symbolic Logic	3
MA 341	Applied Differential Equations I	3
MA 351	Introduction to Discrete Mathematical Models	3
MA 401	Applied Differential Equations II	3
MA 402	Mathematics of Scientific Computing	3
MA 403	Introduction to Modern Algebra	3
MA 405	Introduction to Linear Algebra	3
MA 407	Introduction to Modern Algebra for Mathematics Majors	3
MA 408	Foundations of Euclidean Geometry	3
MA 410	Theory of Numbers	3
MA 412	Long-Term Actuarial Models	3
MA 413	Short-Term Actuarial Models	3
MA 416	Introduction to Combinatorics	3
MA 421	Introduction to Probability	3
MA 425	Mathematical Analysis I	3
MA 426	Mathematical Analysis II	3
MA 427	Introduction to Numerical Analysis I	3
MA 428	Introduction to Numerical Analysis II	3

MA 430	Mathematical Models in the Physical Sciences	3	MA 515	Analysis I	3
MA 432	Mathematical Models in Life Sciences	3	MA 518	Geometry of Curves and Surfaces	3
MA 437	Applications of Algebra	3	MA 520	Linear Algebra	3
MA 440		3	MA 521	Abstract Algebra I	3
MA 444	Problem Solving Strategies for Competitions	1	MA 522	Computer Algebra	3
MA 450	Methods of Applied Mathematics I	3	MA 523	Linear Transformations and Matrix Theory	3
MA 451	Methods of Applied Mathematics II	3	MA 524	Combinatorics I	3
MA 491	Reading in Honors Mathematics	1-6	MA 526	Mathematical Analysis II	3
MA 493	Special Topics in Mathematics	1-6	MA 528	Options and Derivatives Pricing	3
MA 494	Major Paper in Math	1	MA 531	Dynamic Systems and Multivariable Control I	3
MA 499	Independent Research in Mathematics	1-6	MA 532	Ordinary Differential Equations I	3
MA 501	Advanced Mathematics for Engineers and Scientists I	3	MA 534	Introduction To Partial Differential Equations	3
MA 502	Advanced Mathematics for Engineers and Scientists II	3	MA 537	Nonlinear Dynamics and Chaos	3
MA 504	Introduction to Mathematical Programming	3	MA 540	Uncertainty Quantification for Physical and Biological Models	3
MA 505	Linear Programming	3	MA 544	Computer Experiments In Mathematical Probability	3
MA 507	Survey of Real Analysis	3	MA 546	Probability and Stochastic Processes I	3
MA 508	Survey of Geometry	3	MA 547	Stochastic Calculus for Finance	3
MA 509	Survey of Abstract Algebra	3	MA 548	Monte Carlo Methods for Financial Math	3
MA 510	Selected Topics In Mathematics For Secondary Teachers	1-6	MA 549	Financial Risk Analysis	3
MA 511	Advanced Calculus I	3	MA 551	Introduction to Topology	3
MA 512		3	MA 555	Introduction to Manifold Theory	3
MA 513	Introduction To Complex Variables	3	MA 561	Set Theory and Foundations Of Mathematics	3

MA 565	Graph Theory	3	ST 421	Introduction to Mathematical Statistics I	3
MA 573	Mathematical Modeling of Physical and Biological Processes I	3	ST 422	Introduction to Mathematical Statistics II	3
MA 574	Mathematical Modeling of Physical and Biological Processes II	3	ST 430	Introduction to Regression Analysis	3
MA 580	Numerical Analysis I	3	ST 431	Introduction to Experimental Design	3
MA 583	Introduction to Parallel Computing	3	ST 432	Introduction to Survey Sampling	3
MA 584	Numerical Solution of Partial Differential Equations--Finite Difference Methods	3	ST 433	Applied Spatial Statistics	3
MA 587	Numerical Solution of Partial Differential Equations--Finite Element Method	3	ST 434	Applied Time Series	3
MA 591	Special Topics	1-6	ST 435	Statistical Methods for Quality and Productivity Improvement	3
MBA 528	Options and Derivatives Pricing	3	ST 437	Applied Multivariate and Longitudinal Data Analysis	3
MEA 315	Mathematics Methods in Atmospheric Sciences	4	ST 440	Applied Bayesian Analysis	3
OR 504	Introduction to Mathematical Programming	3	ST 442	Introduction to Data Science	3
OR 505	Linear Programming	3	ST 445	Introduction to Statistical Computing and Data Management	3
OR 531	Dynamic Systems and Multivariable Control I	3	ST 446	Intermediate SAS Programming with Applications	3
OR 565	Graph Theory	3	ST 491	Statistics in Practice	3
ST 401	Experiences in Data Analysis	4	ST 495	Special Topics in Statistics	1-6
ST 404	Epidemiology and Statistics in Global Public Health	3	ST 497	Professional Experience in Statistics	1-3
ST 405	Applied Nonparametric Statistics	3	ST 498	Independent Study In Statistics	1-6
ST 412	Long-Term Actuarial Models	3	ST 499	Research Experience in Statistics	1-3
ST 413	Short-Term Actuarial Models	3	ST 501	Fundamentals of Statistical Inference I	3
			ST 502	Fundamentals of Statistical Inference II	3

ST 503	Fundamentals of Linear Models and Regression	3
ST 505	Applied Nonparametric Statistics	3
ST 506		3
ST 507	Statistics For the Behavioral Sciences I	3
ST 508		3
ST 511	Statistical Methods For Researchers I	3
ST 512	Statistical Methods For Researchers II	3
ST 513	Statistics for Management and Social Sciences I	3
ST 514	Statistics For Management and Social Sciences II	3
ST 515	Experimental Statistics for Engineers I	3
ST 516	Experimental Statistics For Engineers II	3
ST 517	Applied Statistical Methods I	3
ST 519	Teaching and Learning of Statistical Thinking	3
ST 520	Statistical Principles of Clinical Trials	3
ST 524		3
ST 533	Applied Spatial Statistics	3
ST 534	Applied Time Series	3
ST 535	Statistical Methods for Quality and Productivity Improvement	3
ST 537	Applied Multivariate and Longitudinal Data Analysis	3
ST 540	Applied Bayesian Analysis	3
ST 542	Statistical Practice	3

ST 544	Applied Categorical Data Analysis	3
ST 546	Probability and Stochastic Processes I	3
ST 555	Statistical Programming I	3
ST 556	Statistical Programming II	3
ST 557	Using Technology to Teach and Learn with Data	3
ST 558	Data Science for Statisticians	3
ST 561	Applied Econometrics I	3
ST 562	Data Mining with SAS Enterprise Miner	3
ST 563	Introduction to Statistical Learning	3
ST 590	Special Topics	1-6
ST 701	Statistical Theory I	3
ST 702	Statistical Theory II	3
ST 705	Linear Models and Variance Components	3

## Semester Sequence

This is a sample.

### First Year

Fall Semester		Hours
ENG 101	Academic Writing and Research <sup>1</sup>	4
GEP Humanities ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/</a> )		3
MA 131 or MA 141	Calculus for Life and Management Sciences A or Calculus I	3
GEP Natural Sciences ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/</a> ) (Sequence)		4
GEP Health and Exercise Studies ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/</a> )		1
<b>Hours</b>		<b>15</b>
Spring Semester		
EC 205	Fundamentals of Economics	3
GEP Natural Sciences ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/</a> ) (Sequence)		4
GEP Humanities ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/</a> )		3



MA 231 or MA 241	Calculus for Life and Management Sciences B or Calculus II	3
GEP Health and Exercise Studies ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/</a> )		1

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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 ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/</a> )		4
GEP Interdisciplinary Perspectives ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/</a> )		3

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**Hours** **16**

**Spring Semester**

ST/BUS 350	Economics and Business Statistics	3
EC 302	Intermediate Macroeconomics	3
BUS 351	Predictive Analytics for Business	3
GEP US Diversity, Equity, and Inclusion ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-usdei/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-usdei/</a> )		3
Free Electives		4

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**Hours** **16**

**Third Year****Fall Semester**

EC 351	Econometrics I	3
Quantitative Elective (p. )		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
GEP Interdisciplinary Perspectives ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/</a> )		2

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 Electives (p. 1)		6
Free Electives		6

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**Hours** **15**

**Fourth Year****Fall Semester**

Economics Electives (p. 1)		3
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Select two Advised Electives (p. 1)		6
GEP Social Sciences ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-social-sciences/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-social-sciences/</a> )		3
GEP Natural Sciences ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-natural-sciences/</a> )		3

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**Hours** **15**

**Spring Semester**

EC 490	Research Seminar in Economics	3
Select two Advised Electives (p. 1)		6
Free Electives		5

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**Hours** **14**

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**Total Hours** **120**

<sup>1</sup> 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.