

# ECONOMICS (BA OR BS)

The Department of Economics offers two alternative undergraduate degrees with a major in Economics: A Bachelor of Arts (B.A.) degree and a Bachelor of Science (B.S.) degree. Under either degree, a student majoring in economics should acquire a thorough grounding in basic principles and methods of analysis, plus a working competence in several of the specialized and applied fields. Examples of such fields are industrial organization, law and economics, money and banking, international trade and finance, public finance, labor economics, health economics, urban and regional economics, and economic development.

Course work in economics serves a wide variety of vocational objectives. An economics major (supplemented by a rigorous calculus and statistics course sequence) is excellent preparation for graduate work in economics, which qualifies a person for academic, business, or government employment. Majors and others with strong economics training are attractive prospects for business firms and government agencies, and for professional graduate study in business or public policy. An economics background is especially desirable for the study and practice of law. The economics B.S. is recommended for students interested in professions that call for quantitative skills. The B.S. is especially recommended for Honors students and students considering graduate school in economics or other quantitative areas.

## Requirements

### Economics B.A Requirements

For an economics major that leads to a Bachelor of Arts degree, students must earn twenty-four credits in courses at the 2000 level or above, including:

Course	Title	Credits
<b>Intermediate Theory courses</b>		
ECON 2201 or ECON 2211Q	Intermediate Microeconomic Theory Quantitative Intermediate Microeconomics	3
ECON 2202 or ECON 2212Q	Intermediate Macroeconomic Theory Quantitative Intermediate Macroeconomics	3
<b>Quantitative Skills courses</b>		
Select nine credits of the following:		9
ECON 2301Q	Mathematical Economics	
ECON 2311Q	Econometrics I	
ECON 2312Q	Econometrics II	
ECON 2326	Operations Research	
ECON 2327		
ECON 2327W		
ECON 2328		
ECON courses at the 3000 level or above		

No more than six credits in ECON 2499 Independent Study and/or ECON 3499 Independent Study may be counted toward the required 24 credits in economics courses at the 2000 level or above. ECON 2481 Internship Field Study does not count toward fulfilling the major requirements.

Economics B.A. majors are also required to pass twelve credits in 2000-level or above courses in fields related to economics or to fulfill a minor related to economics. In addition, all Economics majors must take:

Course	Title	Credits
Select one of the following:		
STAT 1000Q	Introduction to Statistics I	4
STAT 1100Q	Elementary Concepts of Statistics (recommended)	
Select one of the following:		
MATH 1071Q	Calculus for Business and Economics	3-4
MATH 1131Q	Calculus I	
MATH 1151Q	Honors Calculus I	
MATH 2141Q	Advanced Calculus I	

ECON 2311Q Econometrics I is a recommended course for the B.A. Students may substitute more advanced MATH and STAT courses with consent of the faculty advisor.

### Economics B.S. Requirements

For an economics major that leads to a Bachelor of Science degree, students must take:

Course	Title	Credits
Select one of the following:		
STAT 1000Q	Introduction to Statistics I	4
STAT 1100Q	Elementary Concepts of Statistics (recommended)	
Select one of the following Math sequences:		
Sequence 1		8
MATH 1131Q	Calculus I	
or MATH 1151Q Honors Calculus I		
MATH 1132Q	Calculus II	
or MATH 1152Q Honors Calculus II		
Sequence 2		
MATH 2141Q & MATH 2142Q	Advanced Calculus I and Advanced Calculus II	
Select one of the following:		
MATH 2110Q	Multivariable Calculus	4
MATH 2130Q	Honors Multivariable Calculus	
MATH 2210Q	Applied Linear Algebra	
MATH 2410Q	Elementary Differential Equations	
MATH 2420Q	Honors Differential Equations	

Students may substitute more advanced MATH and STAT courses with consent of the advisor.

B.S. students must take one of the following science sequences in Biology, Chemistry, or Physics:

Course	Title	Credits
<b>Biology</b>		
BIOL 1107	Principles of Biology I	4
BIOL 1108 or BIOL 1110	Principles of Biology II Introduction to Botany	4
<b>Chemistry</b>		
Select one of the following:		8-10

CHEM 1124Q & CHEM 1125Q & CHEM 1126Q	Fundamentals of General Chemistry I and Fundamentals of General Chemistry II and Fundamentals of General Chemistry III
CHEM 1127Q & CHEM 1128Q	General Chemistry I and General Chemistry II
CHEM 1137Q & CHEM 1138Q	and
CHEM 1147Q & CHEM 1148Q	Honors General Chemistry I and Honors General Chemistry II

**Physics**

Select one of the following: 8

PHYS 1201Q & PHYS 1202Q	General Physics I and General Physics II
PHYS 1401Q & PHYS 1402Q	General Physics with Calculus I and General Physics with Calculus II
PHYS 1501Q & PHYS 1502Q	Physics for Engineers I and Physics for Engineers II
PHYS 1601Q & PHYS 1602Q	Fundamentals of Physics I and Fundamentals of Physics II

One of these courses may be used to fulfill the CA 3 lab requirement of the University's general education requirements. In addition, students must take one other CA 3 course from a different subject area, but it need not be a lab course.

B.S. majors must also earn 27 credits in courses at the 2000-level or above, including :

Course	Title	Credits
<b>Quantitative Intermediate Theory courses</b>		
ECON 2211Q & ECON 2212Q	Quantitative Intermediate Microeconomics and Quantitative Intermediate Macroeconomics	6
<b>Econometrics</b>		
ECON 2311Q & ECON 2312Q	Econometrics I and Econometrics II	6
<b>Modeling and Methods courses</b>		
Select at least six credits from the following: 6		
ECON 2301Q	Mathematical Economics	
ECON 2326	Operations Research	
ECON 2327		
ECON 3321	Programming and Computation with R for Economists	
ECON 3322	Open Source Programming with Python for Economists	
ECON 3208	Game Theory	
ECON 3209	Behavioral Economics	
ECON 3313	Elementary Economic Forecasting	
ECON 3315	Financial Econometrics	
ECON 3317	Machine Learning for Economists	
ECON 3318	Panel Data Econometrics	
ECON 4206	Mechanism Design	
ECON 4323	Convex Optimization with Python	
ECON 4326	Operations Research for Benchmarking	

Students may substitute equivalent graduate-level courses with consent of the advisor. B.S. majors may fulfill the requirement for ECON 2211Q

Quantitative Intermediate Microeconomics and ECON 2212Q Quantitative Intermediate Macroeconomics by taking ECON 2201 Intermediate Microeconomic Theory, ECON 2202 Intermediate Macroeconomic Theory, and ECON 2301Q Mathematical Economics, in which case ECON 2301Q Mathematical Economics cannot be used to fulfill the requirement for six credits in modeling and methods courses. B.S. majors may not count ECON 2481 Internship Field Study toward the major, nor may they count more than six credits in ECON 2499 Independent Study and/or ECON 3499 Independent Study.

B.S. majors are also required to pass 12 credits in 2000-level or above courses in a field or fields related to economics. These related area courses may count toward a minor in a field related to economics. For both the B.A. and B.S., the intermediate theory courses (ECON 2201 Intermediate Microeconomic Theory or ECON 2211Q Quantitative Intermediate Microeconomics and ECON 2202 Intermediate Macroeconomic Theory or ECON 2212Q Quantitative Intermediate Macroeconomics) should be taken early in the student's major program. The department has special requirements for economic majors in the University Honors Program.

Economics majors satisfy the information literacy competency by passing at least one W course in Economics. Students may gain enhanced competence in information literacy by taking ECON 2311Q Econometrics I, ECON 2312Q Econometrics II, ECON 2326 Operations Research, or ECON 2327. Economics majors satisfy the writing in the major requirement by passing at least one W course in Economics. A minor in Economics is described in the "Minors" section.

## University General Education Requirements

Every student must meet a set of core requirements to earn a baccalaureate degree, in addition to those required by the student's major course of study and other requirements set by the student's school or college. For more information about these requirements, please see General Education Requirements (<https://catalog.uconn.edu/undergraduate/gen-ed-requirements/>).

## College of Liberal Arts and Sciences Degree Requirements

Students must meet a set of requirements established by the college in addition to the University's General Education requirements. For more information, see the College of Liberal Arts and Sciences (<https://catalog.uconn.edu/undergraduate/liberal-arts-sciences/#requirementstext>) section of this catalog.