



### ***Twin Cities Campus***

## **Economics B.S.**

*Economics*

### **College of Liberal Arts**

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2014
- Required credits to graduate with this degree: 120
- Required credits within the major: 48
- Degree: Bachelor of Science

Economics emphasizes critical thinking and the understanding of basic economic principles. The B.S. is for students interested in graduate study in economics or in a career where quantitative economic analysis plays a significant role. The strong quantitative component in this degree emphasizes multivariate calculus, linear algebra, and econometrics.

Students choose from courses in comparative economic systems, economic theory, econometrics, economic development, game theory, industrial organization, cost-benefit analysis, environmental, financial, international, mathematical, monetary, public, and labor economics.

For more information, visit [www.econ.umn.edu](http://www.econ.umn.edu).

## **Program Delivery**

This program is available:

- via classroom (the majority of instruction is face-to-face)

## **Admission Requirements**

Students must complete 4 courses before admission to the program.

For information about University of Minnesota admission requirements, visit the [Office of Admissions website](#).

### **Required prerequisites**

#### **Preparatory Coursework**

Note: these courses do not factor into the overall length in credits of the major.

[ECON 1101](#) - Principles of Microeconomics [SOCS, GP] (4.0 cr)

[ECON 1102](#) - Principles of Macroeconomics (4.0 cr)

[MATH 1271](#) - Calculus I [MATH] (4.0 cr)

[MATH 1272](#) - Calculus II (4.0 cr)

## **General Requirements**

All students are required to complete general University and college requirements including writing and liberal education courses. For more information about University-wide requirements, see the [liberal education requirements](#). Required courses for the major or minor in which a student receives a D grade (with or without plus or minus) do not count toward the major or minor (including transfer courses).

## **Program Requirements**

All major coursework must be taken A-F. Up to 3 credits of independent study (ECON 3991) may count toward the major. Supporting work in computer science, mathematics, and statistics is recommended. Only one country/area study course (ECON 3960, 4311, 4313, or 4315) or DUS-approved study-abroad course may count toward the electives requirement. All study-abroad or transfer courses must be approved by the director of undergraduate studies in the Department of Economics. Students must complete at least 12 credits of upper-division coursework (ECON 4xxx-5xxx) in residence at the University of Minnesota - Twin Cities campus. Students must take at least one writing intensive course in the major, or take ECON 4100W concurrently with ECON 4831, or an honors course. Students may receive no more than one undergraduate degree from the Department of Economics: a B.A. or a B.S. or a minor.

Beginning fall 2012, all incoming CLA freshmen must complete the appropriate First Year Experience course sequence. Specific information about this collegiate requirement can be found at: [http://class.umn.edu/degree\\_requirements/index.html](http://class.umn.edu/degree_requirements/index.html)

### **Major Requirements**

[ECON 3101](#) - Intermediate Microeconomics (4.0 cr)

[ECON 3102](#) - Intermediate Macroeconomics (4.0 cr)



ECON 4261 - Introduction to Econometrics (4.0 cr)  
MATH 2243 - Linear Algebra and Differential Equations (4.0 cr)  
MATH 2263 - Multivariable Calculus (4.0 cr)

Take one of the following course pairs:

STAT 4101 - Theory of Statistics I (4.0 cr)  
STAT 4102 - Theory of Statistics II (4.0 cr)  
or STAT 5101 - Theory of Statistics I (4.0 cr)  
STAT 5102 - Theory of Statistics II (4.0 cr)

### Electives

Take a total of six courses for twenty credits. At least one 4xxx-5xxx course must be writing intensive. Students may substitute selected 5xxx APEC courses for one of the six required elective courses, with the prior approval of the director of undergraduate studies. ECON 4431W, 4631, 4721, 4731, 4741, and 4751 are also offered as four-credit honors courses open to all students. Take 4 or more course(s) totaling 12 or more credit(s) from the following:

- ECON 3960 ~~{Inactive}~~(3.0 cr)
- ECON 4171 ~~{Inactive}~~(3.0 cr)
- ECON 4311 - Economy of Latin America (3.0 cr)
- ECON 4313 ~~{Inactive}~~(3.0 cr)
- ECON 4315 ~~{Inactive}~~(3.0 cr)
- ECON 4331W - Economic Development [WI] (3.0 cr)
- ECON 4337 ~~{Inactive}~~(3.0 cr)
- ECON 4421W ~~{Inactive}~~[WI] (3.0 cr)
- ECON 4432W - International Finance [WI] (3.0 cr)
- ECON 4531 - Labor Economics (3.0 cr)
- ECON 4621 ~~{Inactive}~~(3.0 cr)
- ECON 4741H ~~{Inactive}~~(4.0 cr)
- ECON 4821 - Public Economics (3.0 cr)
- ECON 4831 - Cost-Benefit Analysis (3.0 cr)
- ECON 4960 ~~{Inactive}~~(4.0 cr)
- ECON 5890 ~~{Inactive}~~(3.0 cr)
- ECON 4431W - International Trade [GP, WI] (3.0 cr)  
or ECON 4431V ~~{Inactive}~~[GP, WI] (4.0 cr)
- ECON 4631 - Industrial Organization and Antitrust Policy (3.0 cr)  
or ECON 4631H ~~{Inactive}~~(4.0 cr)
- ECON 4721 - Money and Banking (3.0 cr)  
or ECON 4721H ~~{Inactive}~~(3.0 cr)
- ECON 4731 ~~{Inactive}~~(3.0 cr)  
or ECON 4731H ~~{Inactive}~~(4.0 cr)
- ECON 4751 - Financial Economics (3.0 cr)  
or ECON 4751H ~~{Inactive}~~(4.0 cr)
- May use one of the courses below with major adviser approval.  
Take 0 - 1 course(s) from the following:
  - MATH 4065 - Theory of Interest (4.0 cr)
  - MATH 4606 ~~{Inactive}~~(4.0 cr)
- Take 2 or more course(s) totaling 8 or more credit(s) from the following:
  - ECON 4109H ~~{Inactive}~~(4.0 cr)
  - ECON 4113 ~~{Inactive}~~(4.0 cr)
  - ECON 4431V ~~{Inactive}~~[GP, WI] (4.0 cr)
  - ECON 4621H ~~{Inactive}~~(4.0 cr)
  - ECON 4631H ~~{Inactive}~~(4.0 cr)
  - ECON 4721H ~~{Inactive}~~(3.0 cr)
  - ECON 4731H ~~{Inactive}~~(4.0 cr)
  - ECON 4741H ~~{Inactive}~~(4.0 cr)
  - ECON 4751H ~~{Inactive}~~(4.0 cr)
  - ECON 4161 - Microeconomic Analysis I (2.0 cr)
  - ECON 4162 - Microeconomic Analysis II (2.0 cr)
  - ECON 4163 - Microeconomic Analysis III (2.0 cr)
  - ECON 4164 - Microeconomic Analysis IV (2.0 cr)
  - ECON 4165 - Macroeconomic Theory (2.0 cr)
  - ECON 4166 - Macroeconomic Theory (2.0 cr)
  - ECON 4167 - Macroeconomic Theory (2.0 cr)
  - ECON 4168 - Macroeconomic Theory (2.0 cr)

### Upper-division Writing Intensive within the major

Students are required to take one upper-division Writing Intensive course within the major. If that requirement has not been satisfied within the core major requirements, students must choose one course from the following list. Some of these courses may also fulfill



other major requirements.

Take 0 - 1 course(s) from the following:

- ECON 4100W *{Inactive}*[WI] (1.0 cr)
- ECON 4331W - Economic Development [WI] (3.0 cr)
- ECON 4421W *{Inactive}*[WI] (3.0 cr)
- ECON 4431V *{Inactive}*[GP, WI] (4.0 cr)
- ECON 4431W - International Trade [GP, WI] (3.0 cr)
- ECON 4432W - International Finance [WI] (3.0 cr)