The mathematical economics major offers students a degree program that combines mathematics, statistics, and economics. In today’s increasingly complicated international business world, a strong preparation in the fundamentals of both economics and mathematics is crucial to success. This degree program is designed to prepare a student to go directly into the business world with skills that are in high demand, or to go on to graduate study in economics or finance. A degree in mathematical economics would, for example, prepare a student for the beginning of a career in operations research or actuarial science.

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with an ECO prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. A complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, can be found in the Arts and Sciences section of the 2017-2018 Undergraduate Bulletin.

UK Core Requirements

See the UK Core section of the 2017-2018 Undergraduate Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list ................................................................. 3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list ............................................................... 3

III. Intellectual Inquiry in the Social Sciences
Choose one course from approved list ............................................................... 3

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
Choose one course from approved list ............................................................... 3

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I .......................................... 3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II ........................................ 3

VII. Quantitative Foundations
Choose one course from approved list ............................................................... 3

VIII. Statistical Inferential Reasoning
STA 296 Statistical Methods and Motivations ................................................... 3

IX. Community, Culture and Citizenship in the USA
Choose one course from approved list ............................................................... 3

X. Global Dynamics
Choose one course from approved list ............................................................. 3

UK Core hours .................................................................................................... 30

Graduation Composition and Communication Requirement (GCCR)
ECO 491G Applied Econometrics ..................................................................... 3

Graduation Composition and Communication Requirement hours (GCCR) ............................................................. 3
**Mathematical Economics (B.S.) • 2**

For the Statistics Component
Choose STA 296 or a higher level statistics course .............................................. 3

**Other Major hours:** ..................................................................................................... 21

Electives
Choose electives to lead to the minimum total of 120 hours required for
graduation ......................................................................................................................... 6

**Total Minimum hours**
**Required for Degree** .................................................................................................. 120

*Course used towards completion of a UK Core Requirement.*