

2009-2010

B.A. in Economics/Mathematics

**College of Business and Economics
College of Sciences and Technology**

What Is the Study of Economics/Mathematics?

The study of Economics will provide an understanding of economic concepts and the functioning of the economy in addition to the ability to apply economic analysis in problem solving. The Economics Department strives to provide a program which gives students rigorous training in both economic theory and applications.

Why Should I Consider This Major?

This major is suitable for students who wish considerable depth in both disciplines, and is particularly recommended as preparation for graduate study in Economics.

How to Declare:

Admission to programs in the College of Business and Economics (CBE) is selective and based upon prior academic performance and other evidence of high promise. Students may apply for admission to the College any time after they are offered admission to Western Washington University.

Students interested in Economics Major Programs, please see the Economics Department in Parks Hall 315 for information.

Students who intend to complete a major in Mathematics are urged to declare the major formally at an early point in their Western career so that a program of study can be planned in collaboration with a departmental advisor.

Mid-Program Checkpoint:

Students intending to complete a Bachelor's of Arts degree in Economics/Mathematics within four years should complete the following courses by the start of their junior year. Students are expected to follow all prerequisite requirements for courses and seek early departmental advisement.

Coursework:

ECON 206, 207

MATH 124-125, or MATH 134-135, or
MATH 138

One of: CSCI 139,140, 141 or MATH 207

Additional lower-division math
requirements

Other Activities:

Student Club: The Economics Association

Contact Information:

Economics Department Website:

<http://www.cbe.wwu.edu/econ>

Mathematics Department Website

<http://www.wwu.edu/depts/math/>

Economics Department Chair:

Dr. Paul Storer

PH 315A

360-650-6531

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Department Assistant

Theresa Gresley

PH 315

360-650-3910

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**Mathematics Chair and
Undergraduate Advisor:**

Tjalling Ypma

BH 202A

360-650-3785

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Sample Careers:

Actuary/Banking

Financial Planner/ Analyst

Economic Researcher

Economist

Graduate School

Entrepreneur

Business Forecaster



Economics/Mathematics Major Requirements: 94-95 Credits

ECON 206 Introduction to Microeconomics (4)
ECON 207 Introduction to Macroeconomics (4)
ECON 303 The History of Economic Thought (4)
ECON 306 Intermediate Microeconomics (4)
ECON 307 Intermediate Macroeconomics (4)
ECON 406 Topics in Microeconomics (4)
Or ECON 407 Topics in Macroeconomics (4)
ECON 475 Econometrics (4)

16 additional credits in upper-division courses in Economics, under prior departmental advisement: 8 of these 16 credits must be at the 400 level

Take one Communication Focus (CF) course and complete the upper-division Writing Proficiency (WP) requirement. The CF course must be taken within CBE while the WP requirement can be met with courses from any of the combined major departments. These requirements can be completed as part of the above required and elective credits.

MATH 124 Calculus and Analytic Geometry I (5)
Or MATH134 Honors Calculus I (5)
MATH 125 Calculus and Analytic Geometry II (5)
Or MATH 135 Honors Calculus II (5)
Note: MATH 138 (5) can substitute for the 124/134 and 125/135 set.
MATH 204 Elementary Linear Algebra (4)
MATH 224 Multivariable Calculus and Geometry I (5)
MATH 225 Multivariable Calculus and Geometry II (4)
MATH 226 Limits and Infinite Series (4)
MATH 304 Linear Algebra (4)
MATH 331 Ordinary Differential Equations (4)
MATH 341 & 342 Probability & Statistics/Statistical Methods (4 each)
Or MATH 441 & 442 Probability/Mathematical Statistics (4 each)
Note: the pair MATH 203 and 303 can substitute for MATH 204 and 331
M/CS 435 Nonlinear Optimization (4)

One From:

CSCI 139 Programming Fundamentals in Python (4)
CSCI 140 Programming Fundamentals in C++ (4)
CSCI 141 Computer Programming I (4)
MATH 207 Mathematical Computing (3)

These courses are offered within this major and may be used to satisfy GUR or Writing Proficiency requirements.

QSR: MATH 157 or MATH 124

SSC: ECON 206, 207

MGMT 271

WP: Three Writing Proficiency points are required for graduation (they are noted as WP1, WP2, and WP3). Check [Classfinder](#) or [Online Timetable](#) for departmental offerings each quarter.

Other Economics or Mathematics Options:

B.A. Economics (66-69 credits)
B.A. Financial Economics (94-97 credits)
B.A. Economics/Accounting (100-101 credits)
B.A. Economics/Political Science (94-96 credits)
B.A. Economics/Environmental Studies (103-104 credits)
B.A. Politics/Philosophy/Economics (83 credits)
B.A. Economics/Social Studies (90-94 credits)
B.A. Mathematics (70 credits plus 14-20 credits in supporting courses)
B.S. Mathematics (70 plus 17-20 credits in supporting courses)
B.S Applied Mathematics (70 credits plus 17-20 credits in supporting courses)
B.S. Mathematics/Computer Science (91 credits)
B.S Biology/Mathematics (104-105 credits)
B.A. Ed. Elementary Mathematics (50 credits plus certification program)
B.A. Ed. Secondary Mathematics (70 credits plus certification program)
B.A. Ed. Secondary Chemistry/Mathematics (106-121 credits plus certification program)
B.A. Ed. Secondary Physics/Mathematics (106-107 credits plus certification program)
Minor in Economics (24 credits)
Minor in Mathematics (34-35 credits)