ECONOMICS BA/ MATHEMATICS, BS - DUAL DEGREE

Introduction
Please click here (http://catalog.ucdenver.edu/cu-denver/undergraduate/schools-colleges-departments/college-liberal-arts-sciences/economics/) to see Economics department information or here (http://catalog.ucdenver.edu/cu-denver/undergraduate/schools-colleges-departments/college-liberal-arts-sciences/mathematical-statistical-sciences/) for Mathematical and Statistical Sciences department information.

A solid training in the mathematical and statistical sciences is fundamental to optimally prepare economics students for graduate school. A dual degree in economics and mathematics will substantially increase program quality and career prospects for our students, as well as enhance the reputation of the economics program at CU Denver. Similarly, a solid training in quantitative and qualitative economic principles offers significant benefits to mathematics majors who seek industrial and/or consulting positions.

These degree requirements are subject to periodic revision by the academic department, and the College of Liberal Arts and Sciences reserves the right to make exceptions and substitutions as judged necessary in individual cases. Therefore, the College strongly urges students to consult regularly with their Economics major advisor, Math major advisor and CLAS advisor to confirm the best plans of study before finalizing them.

Economics Advisors:
- Debbie Evercloud debbie.evercloud@ucdenver.edu
- Jim Smith jim.smith@ucdenver.edu

Mathematics Advisor:
- Adam Spiegler math.advising@ucdenver.edu

Program Requirements

1. Students must complete a minimum of 72 hours with a minimum of 30 ECON credit hours and a minimum of 39 MATH credit hours.
2. Students must complete a minimum of 27 upper division (3000-level and above) ECON credit hours and a minimum of 27 upper division (3000-level and above) MATH credit hours.
3. Students must earn a minimum grade of C- (1.7) in all courses that apply to the majors and must achieve a minimum cumulative GPA of 2.0 in ECON courses and a cumulative GPA of 2.25 in MATH courses. Courses taken using P+/P/F or S/U grading cannot apply to major requirements.
4. Students must complete a minimum of 18 ECON credit hours including ECON 4811 Introduction to Econometrics, with CU Denver faculty. Once a student has enrolled at CU Denver, no more courses in the major can be taken outside the CU Denver Economics Department. This includes courses offered at Metropolitan State University. The department reserves the right to require a demonstration of competence for any core courses not taken from CU Denver faculty. Additionally, the Department of Mathematical and Statistical Sciences requires that at least 15 upper-division Mathematics credits must be taken at CU Denver.

Program Restrictions, Allowances and Recommendations

1. In addition to the CLAS residence requirements, the Economics Department requires that all courses other than ECON 2012 Principles of Economics: Macroeconomics and ECON 2022 Principles of Economics: Microeconomics require written department approval to be transferred in as satisfying major requirements.
2. A student who attempts the dual degree but who does not fulfill all requirements for the Mathematics BS will need to complete the requirements for the Economics BA as a stand-alone degree. A Mathematics elective will substitute for one of the six economics electives only if all requirements of the Mathematics major are met.

Declarations

- This is an on-campus program.

Declaring This Major

- Click here (http://catalog.ucdenver.edu/cu-denver/undergraduate/schools-colleges-departments/college-liberal-arts-sciences/mathematical-statistical-sciences/#policytext) to go to information about declaring a major.

Code | Title | Hours
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MATH 1376 | Programming for Data Science | 3
CSCI 1410 | Fundamentals of Computing & CSCI 1411 and Fundamentals of Computing Laboratory | 15
ECON 2012 | Principles of Economics: Macroeconomics | 3
ECON 2022 | Principles of Economics: Microeconomics | 3
ECON 4071 | Intermediate Microeconomic Theory | 3
ECON 4081 | Intermediate Macroeconomic Theory | 3
ECON 4811 | Introduction to Econometrics | 3
MATH 1401 | Calculus I | 3
MATH 2411 | Calculus II | 3
MATH 2421 | Calculus III | 3
MATH 3000 | Introduction to Abstract Mathematics | 3

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Complete a minimum of 15 elective credit hours in ECON (p. 2) 15
Complete a minimum of 9 elective credit hours in MATH (p. 2) 9

Total Hours 72

Economics Electives

Complete six upper division level Economics elective courses or five Economics elective courses plus one Mathematics elective course from the list below. 15
A minimum of four of these courses must be at the 4000-level.


One of the following approved Economics electives at the end of the list can be double counted as the fourth Mathematics elective.

Total Hours 72

Mathematics Electives

Complete four upper-division level Mathematics elective courses or three Mathematics elective course plus one Economics elective course from the list of approved Economics electives below. 9

To learn more about the Economics BA Student Learning Outcomes for this program, please visit our website (https://clas.ucdenver.edu/economics/programs/bachelor-arts/).

To learn more about the Mathematics BS Student Learning Outcomes for this program, please visit our website (https://clas.ucdenver.edu/mathematical-and-statistical-sciences/undergraduate-goals-and-objectives/).
To review the Degree Map for this program, please visit our website (https://www.ucdenver.edu/student/advising/undergraduate/degree-maps/clas/).