Dual Bachelor of Science in Economics (BA) and Mathematics (BS)

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 enhancing increase the reputation of the economics program at UCD. Similarly, a solid training in quantitative and qualitative economic principles offers significant benefits to mathematics majors who seek industrial and/or consulting positions.

Economics requirements

COURSE	NOTES
ECON 2012 Dringiples of Economics: Magroconomics	3 credits
ECON 2012 – Principles of Economics: Macroeconomics	
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
	18
18 additional economics credits (typically 6 classes), at	
the 3000 level or above. At least 12 of these credits must	
be at the 4000 level or above.	
Note: ECON 3801 and ECON 3811 do not count here	
3 of these credits may be replaced by one of the following	
mathematics classes (counting for both economics and	
mathematics):	
MATH 3301 Introduction to Optimization in OR	
MATH 3302 Simulation in Operations Research	
MATH 4390 Game Theory	
2	
MATH 4733 Partial Differential Equations	
MATH 4810 Probability	
MATH 5350* Mathematical Theory of Interest	
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*Note, courses above MATH5000 require consent of the instructor

Senior Exercise

Graduating seniors must submit the three best papers that the student wrote in any three separate courses taken in the Department of Economics for the outcomes assessment of the economics program. The three papers should be handed in at one time in a folder to the economics office, before the first day of the month in which the student plans to graduate.

Mathematics Requirements

NOTES
NOTES
4
4 credits
4
4
4
3
3
3
3
3
3
12

IL *Note, courses above MATH5000 require consent of the instructor

Portfolio, Interview, Survey (Mathematics)

In the semester of graduation, students must

- participate in an exit interview, which may be scheduled by the mathematics department administrative assistant;
- complete a senior survey, available from the mathematics department administrative assistant.

Residence Requirements

In addition to the CLAS residence requirements, the Economics Department requires that

- At least six of the major courses (18 semester hours), including at least three courses out of 4071, 4081, 4091 and 4811, must be taken from economics faculty at CU Denver.
- Once a student has enrolled at CU Denver, no courses in the major may be taken outside the economics department without permission from the undergraduate advisor.

The Mathematics Department requires that at least 15 upper--division mathematics credits must be taken at CU Denver.