

PROGRAM OVERVIEW

Economics is the science of decision making. The rigorous approach that typifies economics lends itself to a remarkably wide field of practical applications. Trained economists are employed by private businesses, banks, law firms, consulting firms, international corporations and agencies, public utilities, federal and local governments, and colleges and universities. These economists study a diverse array of issues such as the effects of government regulations on industries, the fairness and impacts of taxes, the effects of various policy tools in fighting inflation and unemployment, the causes of poverty, and the plight of the homeless, pollution, crime, and other social policy issues.

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 economics 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.

ACADEMIC ADVISING

The College of Liberal Arts and Sciences (CLAS) supports students to graduation using a shared advising system. CLAS students have two academic advisors with whom they should meet regularly to discuss academic and degree progress: a CLAS Academic Advisor and a major/faculty advisor.

For questions related to CU Denver Core Curriculum, CLAS, general graduation requirements, university/college academic policies, or campus resources contact:

CLAS Academic Advising

clas_advising@ucdenver.edu

Find your CLAS Advisor [here](#)

North Classroom (NC) Building 1030
303-315-7100

For questions related to major requirements, major course prerequisites, or evaluation of transfer coursework in your major contact:

ECON Advising

James Smith or Debbie Evercloud

jim.smith@ucdenver.edu or

debbie.evercloud@ucdenver.edu

Visit the department website [here](#)

Lawrence Street Center Room 470 AB
303-315-2030

MATH Advising

Adam Spiegler

math.advising@ucdenver.edu

Visit the department website [here](#)

Student Commons Building (SCB) 4000
303-315-1700

GENERAL GRADUATION REQUIREMENTS & POLICIES

All CU Denver CLAS students are required to complete the following minimum general graduation requirements to be eligible to apply for graduation:

1. Complete a minimum of 120 semester hours
2. Achieve a minimum 2.0 CU cumulative grade point average (GPA)
3. Complete a minimum of 45 upper-division (3000- to 4000-level) semester hours
4. Complete all CU Denver Core, CLAS, and major requirements
5. Complete a minimum of 30 CLAS hours at CU Denver

*The following are **maximum** semester hours that can apply toward the minimum 120 hours required for graduation:*

- 56 semester hours in major department/prefix courses
- 16 semester hours Pass/Fail
- 12 semester hours of Independent Study/Directed Research
- 12 semester hours of internship credit
- 8 semester hours of physical education credit

PROGRAM REQUIREMENTS & POLICIES

Students are responsible for meeting with the major/faculty advisor in the department to confirm major requirements. In addition to completing all CU Denver Core and CLAS requirements, students completing the Economics B.A. and Mathematics B.S. Dual Degree are required to complete the following minimum 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 major courses taken at CU Denver and must achieve a minimum cumulative GPA of 2.0 in ECON courses and a cumulative GPA of 2.25 in MATH courses. All graded attempts in required and elective courses are calculated in the major GPA. Students cannot complete major or ancillary course requirements as pass/fail.
4. Students must complete a minimum of 18 ECON credit hours including ECON 4811, 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.
5. In addition to the CLAS residence requirements, the Economics Department requires that all courses other than ECON 2012 and ECON 2022 require written department approval to be transferred in as satisfying major requirements.
6. A student who attempts the dual degree but who does not fulfill all requirements for the Mathematics BS will need to complete the requirements 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.

LYNX CONNECT RESOURCES

Are you interested in learning about internship, study abroad, career, and research opportunities for this program? Visit the CU Denver Lynx Connect, located in Tivoli Student Union (TV) Suite 339, and browse the Lynx Connect [website](#) for more information.



Degree Requirements	Credits	Notes
* Course prerequisites change regularly. Students are responsible for consulting advisors and the class schedule in the student portal for prerequisite information. *		
CU Denver Core Curriculum Requirements	34 - 40	CU Denver Core Curriculum Requirements
CLAS Graduation Requirements	15 - 29	CLAS Graduation Requirements
ECON Requirements	30	
ECON Required Courses		
ECON 2012 Principles of Economics: Macroeconomics	3	Course can fulfill CU Denver Core Social Science
ECON 2022 Principles of Economics: Microeconomics	3	Course can fulfill CU Denver Core Social Science
ECON 4071 Intermediate Microeconomic Theory	3	*Prerequisite: C- or higher in ECON 3801 or B or higher in MATH 2411 or 2421
ECON 4081 Intermediate Macroeconomic Theory	3	*Prerequisite: C- or higher in ECON 3801 or C or higher in MATH 2411 or 2421 with a B or higher
ECON 4811 Introduction to Econometrics	3	*Prerequisite: C- or higher in ECON 3811 or MATH 3382
ECON Electives: Take <i>six</i> ECON elective courses or <i>five</i> ECON elective courses plus one approved MATH elective course. Any <i>six</i> three-credit ECON courses (<i>four</i> of them must be 4000-level) may satisfy this requirement except internships and independent studies.	18	ECON 3801 and ECON 3811 cannot be counted as electives. One of the following MATH courses can be counted as one ECON elective (it may also be counted as one MATH elective): MATH 3301, 3302, 4387, 4390, 4650, 4733, 4810, or 5350.
MATH Requirements	39	
MATH Required Courses		
MATH 1376 Programming for Data Science or CSCI 1410 & 1411 Fundamentals of Computing with Lab*	3-4	*Prerequisite: C- or higher in MATH 1109 or MATH 1110 or MATH 1120 or MATH 1130 or MATH 1401 or MATH 2830 OR entry into the MA30 or MA01 Student Group OR ALEKS PPL score 61-100 (for MATH 1376) *Corequisite: CSCI 1410/1411
MATH 1401 Calculus I	4	*Prerequisite: C- or higher in MATH 1109, 1070, or 1110 and MATH 1120; or C- or higher in MATH 1130; or C- or higher in MATH 1401; or entry into the MA01 Student Group OR ALEKS PPL score 76-100. Course can fulfill CU Denver Core Mathematics
MATH 2411 Calculus II	4	*Prerequisite: C- or higher in MATH 1401 Course can fulfill CU Denver Core Mathematics
MATH 2421 Calculus III	4	*Prerequisite: C- or higher in MATH 2411 Course can fulfill CU Denver Core Mathematics
MATH 3000 Introduction to Abstract Mathematics	3	*Corequisite: MATH 2421 or MATH 3191
MATH 3191 Applied Linear Algebra	3	*Prerequisite: C- or higher in MATH 2411
MATH 3200 Elementary Differential Equations	3	*Prerequisite: C- or higher in MATH 2411; *Corequisite: MATH 3191
MATH 3382 Statistical Theory	3	*Prerequisite: C- or higher in MATH 2421
MATH 4310 Introduction to Real Analysis I	3	*Prerequisite: C- or higher in MATH 2421 and MATH 3000
MATH 4779 Math Clinic	3	*Check individual courses for prerequisites.
MATH Electives: Take <i>four</i> MATH elective courses or <i>three</i> MATH elective courses plus one approved ECON elective course. Any <i>four</i> approved MATH electives (at least 12 semester hours) above 3000-level, excluding MATH 3195, 3511, 3800, and 4830.	12	One of the following ECON courses can be counted as one MATH elective (it may also be counted as one ECON elective): ECON 4030, 4110, 4150, 4320, 4430, 4550, 4610, or 4740.
Estimated General Electives	0	General Elective credits will vary based on Core & CLAS Requirements. Consult with CLAS Advisor.
Total Minimum Program Hours:	120	45 semester hours must be upper-division

SAMPLE ACADEMIC PLAN OF STUDY

The following academic plan is a *sample* pathway to completing degree requirements for this major. Students should tailor this plan based on previously completed college coursework (e.g., AP, IB, CLEP, dual/concurrent enrollment, and transfer credit), course availability, and individual preferences related to course load, schedules, or add-on programs such as minors. **Students must meet with an Economics major advisor to create an individualized plan of study.**

Year One	Fall	CRS
	ENGL 1020 – Core Composition I	3
	CU Denver Core Mathematics – MATH 1401 ^{PE}	4
	ECON 2012 ^C	3
	CU Denver Core Arts / First-Year Seminar	3
	MATH 1376 or CSCI 1410 & 1411 ^{PE}	3-4
	Total Credit Hours	16-17

Spring	CRS
ENGL 2030 – Core Composition II	3
CU Denver Core Humanities	3
ECON 2022 ^C	3
CU Denver Core Nat/Phys Science with Lab	4
MATH 2411 ^{PE}	4
Total Credit Hours	17

Year Two	Fall	CRS
	MATH 2421 ^{PE}	4
	CLAS Communicative Skills	3
	CU Denver Core Behavioral Science	3
	MATH 3000 ^{PE}	3
	ECON 4071 ^{PE}	3
Total Credit Hours	16	

Spring	CRS
MATH 3200 ^{PE}	3
MATH 3191 ^{PE}	3
CLAS Biol/Phys Science with Lab	4
CLAS Humanities	3
ECON 4081 ^{PE}	3
Total Credit Hours	16

Year Three	Fall	CRS
	ECON 4811 ^{PE}	3
	MATH 4310 ^{PE}	3
	CLAS Second Language Semester I	5
	CLAS Behavioral Science	3
	Approved ECON Elective Course	3
Total Credit Hours	17	

Spring	CRS
Approved MATH Elective Course	3
Approved ECON Elective Course	3
CLAS Second Language Semester II	5
Approved MATH Elective Course	3
Total Credit Hours	14

Year Four	Fall	CRS
	Approved MATH Elective Course	3
	Approved ECON Elective Course	3
	Approved ECON Elective Course	3
	Approved MATH/ECON Elective Course	3
	CU Denver Core Cultural Diversity ^M	3
Total Credit Hours	15	

Spring	CRS
Approved ECON/MATH Elective Course	3
Approved ECON Elective Course	3
MATH 3382 ^{PE}	3
MATH 4779 ^{PE}	3
CU Denver Core International Perspectives	3
Total Credit Hours	15

^M Major Course Available ^C CU Denver Core Course ^{PE} Prerequisite Enforced ^{PR} Prerequisite Recommended