

# Department of Economics

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Steven L. Cobb, Chair

## Faculty

Battaglia, Cobb, Dadres, Ellis, Hauge, Jewell, M. Kim, Y. Kim, Kwon, Martinez, McPherson, Molina, Nieswiadomy, Rous, Tieslau

## Introduction

The Department of Economics prepares students for career opportunities in the increasingly competitive domestic and global marketplace. The department is committed to a balance of high quality teaching and research. Students benefit from the personal attention of faculty and develop a clear understanding of applications of economic theory to real-world policy issues.

There are more than 59,000 economists in the United States working in three main areas: 42 percent work in business; 37 percent in teaching, research and consulting; and 21 percent in government. Economists work in many fields, including international trade, forecasting, environmental analysis, monetary theory, economic development, insurance, banking, finance, consulting, health care, communications, marketing, law and labor relations.

An undergraduate major in economics is excellent preparation for graduate work in economics, business, law and other fields. An applied approach helps students develop the technical and quantitative skills necessary for graduate study in many of today's expanding career fields in business and research.

## Programs of Study

The department offers undergraduate and graduate programs in the following areas:

- Bachelor of Arts with a major in economics;
- Bachelor of Science in Economics;
- Master of Arts, and
- Master of Science, both with a major in economics;
- Master of Science with a major in labor and industrial relations; and
- Master of Science with a major in economic research.

A Bachelor of Business Administration with a professional field in economics is available through the Department of Finance, Insurance, Real Estate and Law in the College of Business, and is served by advisors in the Department of Economics.

These programs offer students a diversity of options ranging from a liberal arts perspective to a more quantitative technical background.

## Bachelor of Science in Economics Degree Requirements

**1. Hours Required and General/College Requirements:** A minimum of 120 semester hours, of which 42 must be advanced, and fulfillment of degree requirements for the Bachelor of Science degree as specified in the "General University Requirements" in the Academics section of this catalog and the College of Arts and Sciences requirements.

**2. Major Requirements:** Majors must complete at least 30 hours in economics, including ECON 1100, ECON 1110, ECON 3550, ECON 3560 and ECON 4870, plus 15 additional upper-division hours above the 3000 level, including at least 9 hours from the following: ECON 4020, ECON 4140, ECON 4150, ECON 4180, ECON 4290, ECON 4420, ECON 4460, ECON 4500, ECON 4510, ECON 4550, ECON 4650, ECON 4875. To graduate with a BS in Economics, a student must have a GPA of 2.5 in all economics courses (including transfer work). Students may retake UNT economics courses to improve the overall economics GPA. In computing the economics GPA, only the grade in the last repetition of a course will be included.

A student must receive at least a B in ECON 1100 and ECON 1110 and at least a C in all economics courses above the 3000 level. In addition, a student must receive a B in ECON 1100 before taking ECON 3550 and at least a B in ECON 1110 before taking ECON 3560. In all other cases, a student must earn at least a C in any prerequisite course before taking the next course in a sequence.

### 3. Other Course Requirements:

- a. Math Requirement: MATH 1710 and MATH 1720, both with a grade of C or better.
- b. Statistics Requirement: ECON 4630 or MATH 3680 (either with a grade of C or better).

c. Students may complete either of two options to satisfy the College of Arts and Sciences foreign language requirement:

Option I: must attain intermediate II level (2050) in a foreign language.

Option II: 6 hours of mathematics in addition to MATH 1710 and MATH 1720, chosen from MATH 1780, MATH 2700, MATH 2730, MATH 2770, MATH 3000, MATH 3310, MATH 3350, MATH 3410, MATH 3420, MATH 3610, MATH 3740, MATH 4060, MATH 4100, MATH 4200, MATH 4430, MATH 4450, MATH 4500, MATH 4520, MATH 4610 and MATH 4650. MATH 3680 may be taken to fulfill the statistics requirement and will also count toward the additional 6 hours of mathematics.

4. **Minor:** Optional.

5. **Electives:** See four-year plan.

### BS in Economics — Option I

*The following four-year plan is one example of a variety of ways in which you can complete your chosen degree in four years, and will serve as guide for you to design your pathway to degree completion. Variations will depend on whether you need to take prerequisites or have college credit from exams or dual enrollment.*

*The College of Arts and Sciences expects you to have completed the State recommended high school program and be ready to enroll for Language 2040 or a mathematics course above college algebra. If you are not prepared for this level, the necessary prerequisites will either replace electives or increase the hours required for the degree.*

#### FRESHMAN YEAR

FALL	HOURS
ECON 1110, Principles of Macroeconomics (may be used to satisfy Social and Behavioral Sciences requirement)*	3
ENGL 1310, College Writing I, or ENGL 1313, Computer Assisted College Writing I*	3
MATH 1710, Calculus I**	4
Understanding the Human Community*	3
Visual and Performing Arts*	<u>3</u>
Total	16

SPRING	HOURS
ECON 1100, Principles of Microeconomics	3
ENGL 1320, College Writing II, or ENGL 1323, Computer Assisted College Writing II*	3
MATH 1720, Calculus II	3
Natural Sciences**	3
Understanding the Human Community	<u>3</u>
Total	15

#### SOPHOMORE YEAR

FALL	HOURS
ECON 3550, Intermediate Micro-Theory	3
PSCI 1040, American Government*	3
ECON Elective (advanced)	3
MATH Elective (see major requirements)	3
Elective	<u>3</u>
Total	15

SPRING	HOURS
ECON 3560, Intermediate Macro-Theory	3
PSCI 1050, American Government*	3
MATH Elective	3
Elective	3
Physical Science	<u>3</u>
Total	15

#### JUNIOR YEAR

FALL	HOURS
ECON 4630, Research Methods for Economists, or MATH 3680, Applied Statistics	3
HIST 2610, United States History to 1865*	3
Elective	3
Elective (advanced)	3
Laboratory Science**	<u>3</u>
Total	15

SPRING	HOURS
HIST 2620, United States History Since 1865*	3
ECON Elective (advanced)	3
Elective (advanced)	3
Elective	3
Humanities*	<u>3</u>
Total	15

#### SENIOR YEAR

FALL	HOURS
ECON 4870, Introduction to Econometrics	3
ECON Elective (advanced, see major requirements)	3
ECON Elective (advanced, see major requirements)	3
Elective (advanced)	3
Elective	<u>3</u>
Total	15

SPRING	HOURS
ECON Elective (advanced, see major requirements)	3
Elective (advanced)	3
Elective (advanced)	3
Elective (advanced)	3
Elective	<u>2</u>
Total	14

*\*See the University Core Curriculum section of this catalog for approved list of course options.*

*\*\* See Arts and Sciences degree requirements section of this catalog for approved list of course options*

Actual degree audits may vary depending on availability of courses in a given semester.

Some courses may require prerequisites not listed. Students may wish to use opportunities for electives to complete a minor of their choice.

## Bachelor of Arts with a Major in Economics

### Degree Requirements

1. **Hours Required and General/College Requirements:** A minimum of 120 semester hours, of which 42 must be advanced, and fulfillment of degree requirements for the Bachelor of Arts degree as specified in the “General University Requirements” in the Academics section of this catalog and the College of Arts and Sciences requirements.

2. **Major Requirements:** Majors must complete at least 30 hours in economics, including ECON 1100, ECON 1110, ECON 3550, ECON 3560 and ECON 4510, plus 15 additional upper-division hours above the 3000 level, including at least 9 hours from the following: ECON 4020, ECON 4140, ECON 4150, ECON 4180, ECON 4290, ECON 4420, ECON 4460, ECON 4500, ECON 4550, ECON 4650, ECON 4870, ECON 4875. To graduate with a BA with a major in economics, a student must have a GPA of 2.5 in all economics courses (including transfer work). Students may retake UNT economics courses to improve the overall economics GPA. In computing the economics GPA, only the grade in the last repetition of a course will be included.

A student must earn at least a B in ECON 1100 and ECON 1110 and at least a C in all economics courses above the 3000 level. A student must earn at least a B in ECON 1100 before taking ECON 3550 and at least a B in ECON 1110 before taking ECON 3560. In all other cases, a student must earn a grade of C or higher in any prerequisite course before taking the next course in a sequence.

3. **Other Course Requirements:**

- Math Requirement: MATH 1190 or MATH 1400 or MATH 1710.
- Statistics Requirement: ECON 4630 or MATH 3680 (either with a grade of C or better).

4. **Minor:** Optional.

5. **Electives:** See four-year plan.

### BA with a Major in Economics

The following four-year plan is one example of a variety of ways in which you can complete your chosen degree in four years, and will serve as guide for you to design your pathway to degree completion. Variations will depend on whether you need to

take prerequisites or have college credit from exams or dual enrollment.

The College of Arts and Sciences expects you to have completed the State recommended high school program and be ready to enroll for Language 2040 or a mathematics course above college algebra. If you are not prepared for this level, the necessary prerequisites will either replace electives or increase the hours required for the degree.

### FRESHMAN YEAR

FALL	HOURS
ENGL 1310, College Writing I, or ENGL 1313, Computer Assisted College Writing I*	3
LANG 2040, Foreign Language (intermediate, may be used to satisfy a portion of the Understanding the Human Community requirement)**	3
MATH 1400, College Math with Calculus or MATH 1190, Business Calculus, or MATH 1710, Calculus I**	3
PSCI 1040, American Government* Humanities*	3 <u>3</u>
Total	15

SPRING	HOURS
ENGL 1320, College Writing II, or ENGL 1323, Computer Assisted College Writing II*	3
LANG 2050, Foreign Language (intermediate, may be used to satisfy a portion of the Understanding the Human Community requirement)**	3
PSCI 1050, American Government* Natural Sciences** Visual and Performing Arts*	3 3 <u>3</u>
Total	15

### SOPHOMORE YEAR

FALL	HOURS
ECON 1110, Principles of Macroeconomics (may be used to satisfy Social and Behavioral Sciences requirement)*	3
HIST 2610, United States History to 1865* Elective Elective	3 3 3
Elective	<u>3</u>
Total	15

SPRING	HOURS
ECON 1100, Principles of Microeconomics	3
ECON 3560, Intermediate Macro-Theory	3
HIST 2620, United States History Since 1865* Elective	3 3
Physical Science**	<u>3</u>
Total	15

**JUNIOR YEAR**

FALL	HOURS
ECON 3550, Intermediate Micro-Theory	3
ECON 4630, Research Methods for Economists, or MATH 3680, Applied Statistics	3
Elective (advanced)	3
Elective	3
Laboratory Science**	3
Total	15

SPRING	HOURS
ECON 4510, History of Economic Thought	3
ECON Elective (advanced)	3
Elective (advanced)	3
Elective	3
Elective	3
Total	15

**SENIOR YEAR**

FALL	HOURS
ECON Elective (advanced)	3
ECON Elective (advanced, see major requirements)	3
Elective (advanced)	3
Elective (advanced)	3
Elective	3
Total	15

SPRING	HOURS
ECON Elective (advanced, see major requirements)	3
ECON Elective (advanced, see major requirements)	3
Elective (advanced)	3
Elective	3
Elective	3
Total	15

\*See the *University Core Curriculum* section of this catalog for approved list of course options.

\*\* See *Arts and Sciences degree requirements* section of this catalog for approved list of course options.

*Actual degree audits may vary depending on availability of courses in a given semester.*

*Some courses may require prerequisites not listed. Students may wish to use opportunities for electives to complete a minor of their choice.*

**Bachelor of Business Administration**

BBA candidates must complete a minimum of 120 semester hours, 42 of which must be advanced, and meet “General University Requirements” and “University Core Curriculum Requirements” as stated in the Academics section of this catalog, and general course and curriculum requirements of the College of Business. The professional field in economics is planned with the economics undergraduate advisor and includes ECON 3550, ECON

3560 and ECON 4020; 9 additional advanced economics hours; and 12 hours of approved supporting courses, including FINA 4500.

**Minor in Economics**

Requirements for an economics minor are ECON 1100-1110, plus 12 additional hours of upper-division courses (3000- or 4000-level).

**Certificate in Economic Geography**

The economics and geography departments offer an interdisciplinary certificate in analysis of geographic data. Eighteen (18) hours of course work are required, including four core courses and two electives (one economics and one geography). All courses must be completed with a grade of C or better.

Required core courses include:

- ECON 3550, Intermediate Micro-Theory
- ECON 4650, Urban and Regional Economics
- GEOG 4060, Applied GIS: MapInfo Professional
- GEOG 4220, Applied Retail Geography

Economics elective (choose one of the following):

- ECON 4440, Economics of Natural Resources and the Environment
- ECON 4460, Industrial Organization
- ECON 4870, Introduction to Econometrics

Geography elective (choose one of the following)

- GEOG 3010, Economic Geography
- GEOG 4210, Urban Geography

**Graduate Degrees**

The Master of Arts and Master of Science with a major in economics and the Master of Science with majors in economic research or labor and industrial relations are offered through this department. For information, consult the *Graduate Catalog*.

**Scholarships**

Scholarship applications are available online and in Hickory Hall, Room 254. The deadline for applying is the end of February. Scholarship winners are announced in the spring.

**Sam Barton Labor and Industrial Relations Scholarship**

This scholarship, named in honor of Professor Sam Barton, distinguished labor scholar and former UNT economics faculty member, is awarded to an outstanding graduate student majoring in labor and industrial relations.

To be eligible, students must have a minimum GPA of 3.0 on all college work. Graduate students must meet current academic admissions standards

for the GRE or GMAT. If the applicant is a continuing student, performance in labor and industrial relations and economics classes will be part of the criteria for selection.

The number and amount of the awards depend upon the availability of funding.

#### **Abe Melton Scholarship**

The department annually awards this scholarship based on merit to an economics major. The scholarship is named in honor of Professor Abe Melton, former UNT economics faculty member and former department chair.

To be eligible, a student must be an economics major of junior standing (60 credit hours) and have a minimum 3.5 grade point average.

#### **Tom Preston Economics Scholarship**

This scholarship is named in honor of Tom Preston, former dean, College of Arts and Sciences, and is awarded to outstanding undergraduate and graduate economics majors.

Students who have declared economics as their major are eligible, including entering freshmen and entering graduate students.

To be eligible, an undergraduate student must have a minimum GPA of 3.0 and a minimum SAT of 1100 recentered (or a minimum ACT of 24). A graduate student must have a 3.0 GPA on all college work and must meet current admissions standards for the GRE or GMAT.

The amount and number of awards depend on the availability of funding.

#### **Department of Economics Scholarships for Academic Excellence**

Scholarships are awarded to outstanding undergraduate and graduate economics majors.

Students who have declared economics as their major are eligible, including entering freshmen and entering graduate students.

To be eligible, an undergraduate student must have a minimum GPA of 3.0. A graduate student must have a 3.0 GPA on all college work and must meet current admissions standards for the GRE or GMAT.

The amount and number of awards depend on the availability of funding.

#### **Rising Eagle Scholarship**

This scholarship is for current economics majors who are graduating with a BA/BS/BBA in Economics and are **applying for our master's program in Economics**. Students must have a minimum 3.0 average and have made application to the graduate school. The number and amount of awards depend on the availability of funding.

#### **Lewis M. Abernathy Scholarship**

This scholarship, named in honor of Professor Lewis Abernathy, retired UNT economics faculty member and distinguished department chairman, is awarded to full time undergraduate or graduate majors in economics.

To be eligible, an undergraduate student must have a minimum GPA of 3.0. A graduate student must have a 3.0 GPA on all college work and must meet current economics admissions standards for the GRE or GMAT.

The amount and number of awards depend on the availability of funding.

### **Center for Economic Education**

**Steven L. Cobb, Director**

The Center for Economic Education is committed to making formal instruction in economics more accessible to educators.

The center maintains an in-service teacher training program of course offerings regularly scheduled during evening hours and in the summer. This program provides a mechanism for the in-service training of economics teachers in community colleges and secondary and elementary schools.

In addition to these regional instructional programs, the center develops instructional material, conducts research in economics education, maintains an instructional resource center and provides technical assistance in matters pertaining to instruction in economics.

#### **Graduate Degree**

The center directs a professional program leading to the Master of Science degree with a major in economics and a support area in economic education. The degree program is designed in consultation with the director of the center and the graduate advisor. For information on graduate study, consult the *Graduate Catalog*.

### **Center for International Economic Studies and Research**

**David J. Molina, Co-Director**

**Michael A. McPherson, Co-Director**

The Center for International Economic Studies and Research has three primary objectives.

The first is to promote research through the acquisition of external funding for projects focusing on the socioeconomic problems of Asia, Africa, Central and Eastern Europe, and Latin America.

The center also coordinates undergraduate and graduate programs within existing departments for students interested in problems of these regions.



Beyond the campus, the center develops relationships with other institutions, both public and private, for the exchange of scholars and students, as well as joint research and conferences.

## Center for Environmental Economic Studies and Research

**Michael L. Nieswiadomy, Director**

The Center for Environmental Economic Studies and Research promotes the use of economic tools to analyze environmental issues. The center also coordinates undergraduate major programs within existing departments for students interested in environmental topics. The center cooperates with other universities, educational institutions and government agencies to promote research and seminars on environmental economics for the public.

## Courses of Instruction

All Courses of Instruction are located in one section at the back of this catalog.

### Course and Subject Guide

The "Course and Subject Guide," found in the Courses of Instruction section of this book, serves as a table of contents and provides quick access to subject areas and prefixes.

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# Department of English

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Undergraduate Advising Office  
Auditorium Building, Room 114

**David Holdeman, Chair**

## Faculty

Armintor, Baird, Bataille, Benet, Bond, Curran, Duban, Finseth, Flowers, Foertsch, Friedman, Hawkins, Heard, Holdeman, Horowitz, Jensen, Marks, Mathews, McCutchan, Muyumba, Penkov, Peters, Pettit, Rodman, Rodriguez, Simpkins, Smith, Spencer, Tait, Tanner, Upchurch, Vanhoutte, Wisecup

## Introduction

The Department of English provides students with opportunities to develop skills in written and oral communication; to gain knowledge of American and British literature, world literature, and major literary types; and to gain experience in creative writing. All courses are open to non-majors except ENGL 3000 and ENGL 4700.

The study of English language and literature not only prepares students for teaching on all levels from elementary school to college but also equips them to assume positions of responsibility in business, industry and government as managers and supervisors, personnel specialists, consultants, analysts, editors, and other important leadership roles. English is widely recognized as a foundation discipline for many professions, such as law, journalism, theology, psychology and international diplomacy.

To be an English major or minor is to experience the great literature and thought of our culture and to be prepared to enter the professional world with personal enrichment and insights into the workings of human nature.