Master of Science in Economic Data Analytics

About This Program

The Master of Science in Economic Data Analytics equips students to perform quantitative analysis based on economic logic. It emphasizes development of relevant economic theory and empirical tools needed by successful analysts.

Competencies

1. Economics students will demonstrate knowledge of how to apply economic theory to make business decisions.
2. Economics students will demonstrate a working knowledge of Econometrics, including the ability to interpret, critique, and estimate empirical models of economic behavior.
3. Economics students will demonstrate an ability to capture, cleanse, and analyze data for making business decisions.

Admissions Criteria

The Economics Graduate Advisor reviews all applications and determines if they qualify for unconditional admission. Applicants who do not satisfy the conditions for admission are referred to the Economics Admissions Committee for consideration.

An applicant whose native language is not English must demonstrate a sufficient level of skill with the English language to assure success in graduate studies as defined in the TOEFL and IELTS Test Score Minimums section under Admissions Requirements and Procedures (https://catalog.uta.edu/academicregulations/admissions/graduate/) in the Catalog.

UNCONDITIONAL ADMISSION WITHOUT COMMITTEE REVIEW

Applicants qualify for unconditional admission without the need for review by the Economics Admissions Committee if they meet one of the following conditions.

- Applicant has a bachelor's degree from an accredited college or university in a related or sufficiently quantitative field with a minimum GPA of 3.0 in the last 60 hours of undergraduate work
- Applicant has a bachelor’s degree from an accredited college or university in a related or sufficiently quantitative field and scores at the 60th percentile or higher on the quantitative section of the GRE or GMAT.
- Applicant has a graduate degree from an accredited college or university in a related or sufficiently quantitative field with a minimum GPA of 3.0. Examples of quantitative fields are economics, data science, finance, marketing, business, and sociology. Examples of sufficiently quantitative fields are mathematics, statistics, physics, computer science, actuarial science, and engineering.

ADMISSION WITH COMMITTEE REVIEW

The Economics Admissions Committee will grant Unconditional Admission, Probationary Admission, Deferred Admission, or Deny Admission on the basis of holistic evaluation of the following factors. Weakness in some factors can be offset by strengths in other factors, and no single factor will be the sole criterion determining admissibility.

- Undergraduate and graduate record (number of quantitative course taken and grades earned in those courses, overall GPA, and GPA for the last 60 hours) and program accreditation status of the applicant's degree-granting institution.
  - Ideally, an applicant will have taken at least 5 quantitative courses, which could include statistics, data analysis, calculus, or other math-intensive courses.
- Score on the quantitative section of the GMAT/GRE, if taken.
- Professional work experience.
- Personal statement provided by the applicant addressing reasons for pursuing a graduate degree in Economic Data Analytics and reasons for any GPA deficiencies in previous undergraduate or graduate coursework.
- Letters of recommendation from individuals who can evaluate the applicant’s academic potential and readiness for graduate study in economics.

PROBATIONARY ADMISSION

If applicants do not meet the standards listed for unconditional admission, they will be considered for probationary admission after holistic examination of their application materials. Probationary admission requires that an applicant earn no grade less than a B in the first 9 hours of graduate coursework at UT Arlington.

DEFFERED ADMISSION

A deferred decision may be made when an applicant’s file is not sufficiently complete to make an admission decision, or when an applicant needs to improve certain criteria to enhance their competitive status for future admission consideration.

DENIAL OF ADMISSION

For an applicant lacking sufficient evidence to indicate potential for academic success as an Economic Data Analytics student, admission will likely be denied. All applicant data will be carefully reviewed before an admission denial is made.

Curriculum

Foundations		
ECON 5300	ADVANCED COMMUNICATION FOR BUSINESS AND ECONOMIC PROFESSIONALS	3
ECON 5314	ECONOMIC ANALYSIS FOR BUSINESS DECISIONS	3
ECON 5317	DATA VISUALIZATION	3
ECON 5327	MONETARY POLICY AND FINANCIAL SYSTEM ANALYSIS	3
ECON 5336	APPLIED BUSINESS AND ECONOMICS DATA ANALYSIS I [1]	3
ECON 5337	BUSINESS & ECONOMIC FORECASTING	3
ECON 5339	APPLIED BUSINESS AND ECONOMICS DATA ANALYSIS II	3
ECON 5341	ADVANCED BUSINESS AND ECONOMIC DATA ANALYTICS	3
ECON 5343	CAUSAL INFERENCE FOR BUSINESS DECISIONS	3
INSY 5336	PYTHON PROGRAMMING	3
or BUSA 5344	SAS TOOLS FOR BUSINESS AND ECONOMICS	
or BUSA 5345	R FOR BUSINESS AND ECONOMIC ANALYSIS	
or BUSA 5322	DATA ANALYTICS WITH PYTHON AND MACHINE LEARNING	
Total Hours		**30**

[1] Course may be waived in favor of an elective if student has completed ECON 3318 and 4318 with a B or better. Must be approved by the graduate advisor.

Advising Resources

Contact the Economics Department for graduate program inquiries and academic advising.

Location:

College of Business, Room 309

Email:

cspivey@uta.edu

Phone:

817-272-3061

Web:

Inquiries & Advising (https://www.uta.edu/academics/schools-colleges/business/departments/economics/)