Applied Economics & Predictive Analytics

Gain data analytics skills grounded in economic perspectives.

The M.S. in Applied Economics & Predictive Analytics is ideal for those seeking careers in economic research, consulting and forecasting, either in private industry or government. The program, available both on campus and online, gives you the flexibility to continue your career while expanding your abilities at the same time.

**Program type:** Master's Degree  
**Format:** On Campus or Online  
**Est. time to complete:** 2 years  
**Credit hours:** 30

Looking to learn advanced applied economic skills?

**Graduate Application Deadlines**

- **Fall:** May 15* | Aug. 1  
- **Spring:** Oct. 15* | Dec. 1  
- **Summer:** March 15* | May 1

*Priority deadline

Accredited by AACSB

UND’s master's in Applied Economics & Predictive Analytics is geared toward students who are looking to capitalize on the university's strong culture of research. Many go into fields like economic research and forecasting. As part of the curriculum, you'll start with the basics of economic theory, mathematical economics, and data and statistical analysis. This base will allow to produce quality research right away.

Whether you complete a thesis or an independent study, you'll work directly with a faculty adviser during your graduate studies. You will gather data, apply economic theory and communicate clearly with others — all skills critical to landing a career in private industry or government.

The flexible master's degree program is built to fit your schedule. You can attend classes in person or participate in classes online as they happen. This allows you to interact with others in real time or stream video of classes at a later date.

For undergraduate students, we also offer an accelerated Economics (B.A./M.S.) degree which would allow you to earn a bachelor's and master's degree in as little as five years.

Applied Economics & Predictive Analytics at UND

- Online students pay in-state tuition regardless of where you live. UND offers 13% lower tuition and fees than comparable institutions in the region.  
- Get a solid foundation by taking courses in Economics and Data Analytics.  
- Students and recent grads are eligible for department grants to cover the costs of conferences and research materials.
Many students have a chance to conduct research through the Bureau of Business and Economic Research.

This is a STEM-designated program, meaning that students in the program may be eligible to apply for the North Dakota University System STEM Loan Forgiveness Program.

**Careers in Applied Economics**

**105K** Median annual salary for economists

**20%** Expected employment growth for market research analysts and marketing specialists by 2028, much faster than average for all occupations

Traditionally, economists were mostly in demand on a macro level — analyzing the effect of currency fluctuations, for example, or predicting trends. Increasingly, companies are relying on economists to analyze customer-level data to issue sales projections and forecast consumer behavior. A master’s degree in Applied Economics & Predictive Analytics puts you in position to launch a career in:

- Economic Development
- Strategic Planning
- Consulting
- Financial and Business Analysis
- Applied Research

Applied Economics & Predictive Analytics alumni have gone on to a variety of successful careers with:

- U.S. Bancorp
- UnitedHealth Group, Inc.
- Vaco, LLC
- Affiliated Computer Services, Inc.
- Ameriprise Financial Services, Inc.

**Economics Graduate Course Options**

**Economic Forecasting**
ECON 411. Economic Forecasting. 3 Credits.

An introduction to Economics Forecasting and Time Series Analysis. The course will cover specifications and estimation of ARMA models, seasonality, non-stationarity, unit roots and forecast evaluations. Empirical applications are used throughout the course. Prerequisite or Corequisite: ECON 410 or ECON 506. S.

**Econometrics**
ECON 506. Econometrics. 3 Credits.

Econometric methods, theory, and applications. Topics include linear regression, least-squares estimation, inference, and hypothesis testing. Prerequisite: Admission to the MBA or MSAE program, or department consent required. S.

**International Money and Finance**
ECON 438. International Money and Finance. 3 Credits.

Identification of key international financial concepts and analysis of their relationships in the international money and capital markets; determination of the balance of payments and exchange rates; and examination of alternative organizations of the international monetary system. Prerequisite: ECON 303. F.

**Demographic Methods for Economists**
ECON 565. Demographic Methods for Economics. 3 Credits.
We examine the three key demographic processes: mortality, fertility, and migration. The course emphasis will be on model development for each of the processes. Applications include economic policy issues such as pensions, medical insurance, and other current issues. Prerequisite: ECON 210. SS.

Quantitative Methods for Impact Evaluation and Casual Inference
ECON 545. Quantitative Methods for Impact Evaluation & Causal Inference. 3 Credits.
This course aims to familiarize the student with the current literature on the economics and econometrics of policy and program evaluation. Prerequisites: ECON 506. S.

Microeconomic Theory and Applications
ECON 504. Microeconomic Theory & Applications. 3 Credits.
Economic theory and methodology; theory of consumer behavior and demand; theory of production and distribution; equilibrium in commodity and factor markets; general equilibrium and welfare; behavior of economic agents in imperfect competition. Particular attention is given to efficiency and equity ramifications of perfectly competitive economic systems. Prerequisite: ECON 308. Prerequisite or Corequisite: ECON 416. F.

Top Graduate Economics Program in the Nation
Numerous ranking agencies place UND’s Applied Economics program in the Top 5 nationally. We are highly regarded for educational quality, affordability and career outcomes.

- #2 - Master's Program Guide
- #3 - The Best Master's Degrees
- #4 - Affordable Colleges Online
- #5 - Intelligent

Year-after-year, U.S. News recognizes UND graduate programs. It points out our online graduate business programs at UND are accredited by the Association to Advance Collegiate Schools of Business, the gold standard of business school accreditation.

More Options
Learn more about applied economics studies at UND and determine if it's the right program for you.

- Applied Economics & Predictive Analytics Program
- Explore Similar Degrees
- Applied Economics Certificate

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