

# Master of Science in Applied Economics and Predictive Analytics

## Admission Requirements

1. A four-year bachelor's degree from a recognized college or university.
2. An overall undergraduate grade point average of 2.75 or greater for all undergraduate work or a GPA of at least 3.0 for the junior and senior years of undergraduate work (based on A=4.0).
3. Satisfy the School of Graduate Studies' English Language Proficiency requirements as published in the graduate catalog.
4. Complete undergraduate intermediate microeconomics, one semester of calculus, and one semester of probability and statistics, or equivalent with a minimum grade of C in each course and a minimum GPA of 3.00 on a 4.00 scale in the required courses.
5. Any applicant who has not previously received credit in the intermediate microeconomics course but meets all other stated admission criteria, may be admitted on provisional status. In such a case, the student must complete our free online short course in intermediate microeconomics before admittance to full graduate status. Failure to address this condition could result in dismissal from the School of Graduate Studies.

## Combined BS/MSAEP A Option

A combined BS/MSAEP A option is available to outstanding undergraduates who have completed 90 semester hours in a bachelor's program at UND.

ECON 416 Mathematics for Economists and ECON 411 Economic Forecasting are the two courses that students in the combined program are permitted to count toward both a UND bachelor's degree and the MSAEP A degree, but only if these courses are declared for graduate credit. All other courses taken for credit in the combined program must satisfy only bachelor's program requirements, or only MSAEP A program requirements.

Interested students should consult with the MSAEP A Program Director.

## Accelerated Bachelors/Masters (ABM) 5-Year Degree Option

The ABM degree program allows exceptional undergraduate students at UND an opportunity to complete the requirements for both the bachelor's and master's degrees at an accelerated pace. Undergraduates in both the BBA in Business Economics and the BA in Economics are eligible for consideration for the ABM. All requirements for both the undergraduate and MSAEP A degrees must be met, and these students may double count up to 12 graduate-level credits towards the requirements for their undergraduate degree and their MSAEP A degree requirements. ABM students must obtain their MSAEP A degree within 12 months of completing their undergraduate degree, provided that the degree requirements can be completed in that timeframe.

Admission to the ABM is a competitive process. The following are minimum eligibility requirements:

1. Students must meet the School of Graduate Studies admissions eligibility requirements.
2. Students must have completed a minimum of 60 credits, including credits earned from advanced placement and dual credit. Students must apply before completion of the undergraduate degree.
3. Transfer students with a minimum of 60 credits-whether from the transfer institution alone or in combination with UND credits-must have a minimum cumulative GPA of 3.0/4.0 at the time of admission to the ABM program.
4. Students must have a minimum cumulative GPA of 3.0/4.0 at UND at the time of admission into the ABM program.

5. ABM program applicants must submit the standard application to the School of Graduate Studies, the application fee, a personal statement, and transcripts. ABM program applicants do not need to take the GRE/GMAT.
6. Additionally, ABM program applicants must submit a detailed Program of Study that describes the 12 credits of double counted courses, the courses that will be taken after being accepted into the MSAEP A program, the courses that will be taken before graduation from either of the eligible undergraduate programs, and the expected graduation date for each degree. The submitted program of study must be signed by the student, the student's undergraduate advisor, the student's graduate advisor, and the MSAEP A Program Director.

## Degree Requirements

Students seeking the Master of Science in Applied Economics and Predictive Analytics (MSAEP A) degree through the Department of Economics & Finance at the University of North Dakota must satisfy all general requirements set forth by the School of Graduate Studies as well as particular requirements set forth by the Department of Economics & Finance.

The minimum number of credits for completing the MSAEP A is 30 credits. The MSAEP A curriculum consists of (i) an Economics Core, (ii) a set of Data Analytics courses, (iii) an Independent Study, and, (iv) a minimum of one 3-credit elective. The Independent Study serves as a capstone for the program and allows students to demonstrate their command of the methods and perspectives taught in the program in investigating a substantive problem. The program is designed to be completed within two academic years (5 semesters).

### Economics Core (12 credit hours)

Required courses:

Code	Title	Credits
ECON 416	Mathematics for Economists	3
ECON 504	Microeconomic Theory Applications	3
ECON 505	Macroeconomic Theory Applications	3
ECON 506	Econometrics (Econometrics)	3
<b>Total Credits</b>		<b>12</b>

### Data Analytics (12 credit hours)

Eligible courses:

Code	Title	Credits
ECON 411	Economic Forecasting	3
ECON 510	Time Series Methods Applications	3
ECON 534	Further Topics in Econometrics	3
ECON 545	Quantitative Methods for Impact Evaluation Causal Inference	3
ACCT 513	Data Analytics in Accounting and Financial Reporting	3
<b>Total Credits</b>		<b>15</b>

### Independent Study (3 credit hours)

Code	Title	Credits
ECON 997	Independent Study	3

### \*Electives (minimum of 3 credit hours)

Code	Title	Credits
ECON 411	Economic Forecasting	3
ECON 438	International Money and Finance	3
ECON 503	Government and Business	3
ECON 510	Time Series Methods Applications	3
ECON 524	Advanced International Economics	3
ECON 534	Further Topics in Econometrics	3
ECON 545	Quantitative Methods for Impact Evaluation Causal Inference	3
ECON 565	Demographic Methods for Economics	3

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ECON 575	Advanced Special Topics	3
ECON 597	Economic Research Internship	3
FIN 501	Managerial Finance	3
ACCT 513	Data Analytics in Accounting and Financial Reporting	3

\*Examples shown; offerings may vary from semester to semester. Choices of cognate electives must be determined in consultation with and approved by the MSAEPA program director. Courses previously taken from UND for undergraduate credit may not be used to satisfy MSAEPA requirements.