



Twin Cities Campus

Applied Economics Minor

Applied Economics

College of Food, Agricultural and Natural Resource Sciences

Link to a [list of faculty](#) for this program.

Contact Information:

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Website: <https://www.apec.umn.edu/graduate-program/phd/phd-minor-requirements>

- Program Type: Graduate minor related to major
- Requirements for this program are current for Spring 2022
- Length of program in credits (Masters): 9
- Length of program in credits (Doctorate): 15
- This program does not require summer semesters for timely completion.

Along with the program-specific requirements listed below, please read the [General Information](#) section of the catalog website for requirements that apply to all major fields.

Graduate study in applied economics requires an operational knowledge of economic theory and modern methods of quantitative analysis, as well as practical application in specialized fields of inquiry, which include food and agricultural economics; health economics; labor economics; policy analysis; resource and environmental economics; and trade and development economics.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission

The preferred undergraduate GPA for admittance to the program is 3.00.

Special Application Requirements:

Students interested in the minor are strongly encouraged to confer with their major field advisor and director of graduate studies, and the Applied Economics director of graduate studies regarding feasibility and requirements.

For an online application or for more information about graduate education admissions, see the [General Information](#) section of the catalog website.

Program Requirements

Use of 4xxx courses towards program requirements is not permitted.

Coursework applied to the minor must be approved by the Applied Economics director of graduate studies; and taken on the A/F grading basis with a minimum grade of B for each course.

The minimum cumulative GPA for minor field coursework is 3.00.

Required Coursework (3 to 4 credits)

Select credits from the following in consultation with the Applied Economics director of graduate studies:

[APEC 5031](#) - Methods of Economic Data Analysis (3.0 cr)

[APEC 5151](#) - Applied Microeconomics: Firm and Household (3.0 cr)

[APEC 8001](#) - Applied Microeconomic Analysis of Consumer Choice and Consumer Demand (2.0 cr)

[APEC 8002](#) - Applied Microeconomic Analysis of Production and Choice Under Uncertainty (2.0 cr)

[APEC 8211](#) - Econometric Analysis I (2.0 cr)

[APEC 8212](#) - Econometric Analysis II (2.0 cr)



Electives (6 to 12 credits)

Masters students select 6 credits, and doctoral students select 12 credits from the following with approval of the Applied Economics director of graduate studies.

- APEC 5031 - Methods of Economic Data Analysis (3.0 cr)
- APEC 5032 - Economic Data Analysis for Managerial and Policy Decisions (3.0 cr)
- APEC 5151 - Applied Microeconomics: Firm and Household (3.0 cr)
- APEC 5152 *{Inactive}*(3.0 cr)
- APEC 5321 - Regional Economic Analysis (3.0 cr)
- APEC 5451 - Food Marketing Economics (3.0 cr)
- APEC 5481 - Futures and Options Markets (3.0 cr)
- APEC 5511 - Labor Economics (3.0 cr)
- APEC 5711 - Agricultural and Environmental Policy (3.0 cr)
- APEC 5721 - Economics of Science and Technology Policy (3.0 cr)
- APEC 5751 *{Inactive}*(3.0 cr)
- APEC 5821 - Business Economics and Strategy (3.0 cr)
- APEC 5831 - Food and Agribusiness Marketplace (2.0 - 3.0 cr)
- APEC 8001 - Applied Microeconomic Analysis of Consumer Choice and Consumer Demand (2.0 cr)
- APEC 8002 - Applied Microeconomic Analysis of Production and Choice Under Uncertainty (2.0 cr)
- APEC 8003 - Applied Microeconomic Analysis of Game Theory and Information (2.0 cr)
- APEC 8004 - Applied Microeconomic Analysis of Social Choice and Welfare (2.0 cr)
- APEC 8202 - Mathematical Optimization in Applied Economics (3.0 cr)
- APEC 8203 - Applied Welfare Economics and Public Policy (3.0 cr)
- APEC 8206 - Dynamic Optimization: Applications in Economics and Management (3.0 cr)
- APEC 8211 - Econometric Analysis I (2.0 cr)
- APEC 8212 - Econometric Analysis II (2.0 cr)
- APEC 8213 - Econometric Analysis III (2.0 cr)
- APEC 8214 - Econometric Analysis IV (2.0 cr)
- APEC 8341 - Applied Public Finance (3.0 cr)
- APEC 8401 - Agricultural Markets and Policy (2.0 cr)
- APEC 8402 - Information and Behavioral Economics (2.0 cr)
- APEC 8403 - Applied Consumer Theory (3.0 cr)
- APEC 8404 - Applied Production Theory (3.0 cr)
- APEC 8501 - Labor Economics I (2.0 cr)
- APEC 8502 - Labor Economics II (2.0 cr)
- APEC 8601 - Natural Resource Economics (3.0 cr)
- APEC 8602 - Economics of the Environment (3.0 cr)
- APEC 8701 - Trade and Development I (2.0 cr)
- APEC 8702 - Trade and Development II (2.0 cr)
- APEC 8703 - Trade and Development III (2.0 cr)
- APEC 8704 - Trade and Development IV (2.0 cr)

Program Sub-plans

Students are required to complete one of the following sub-plans.

Students may not complete the program with more than one sub-plan.

Masters

Doctoral