Agricultural and Applied Economics, Ph.D.

Doctoral students are required to develop comprehensive proficiency in economic theory, mathematics, econometrics, and major and minor fields of concentration. In addition to the prerequisites for the master’s program, doctoral applicants should also have mathematical statistics and linear algebra. Candidates for the Ph.D. degree must complete the general requirements of the Graduate School, as well as further requirements which are detailed in the department’s application material and website (http://www.aae.wisc.edu).

The Department of Agricultural and Applied Economics offers graduate degree programs leading to the master of arts, master of science, and doctor of philosophy. Long recognized as one of the top programs in the nation, the department is an active center of research and graduate training in environmental and natural resource economics, the economic development of low-income countries, agricultural economics, community economics, and more recently, resource and energy demand analysis.

Graduate students select courses from among the department’s advanced offerings in these areas. Active department seminar and workshop series complement formal classroom instruction. In addition, nearly all students work as graduate research assistants on projects with individual faculty members. Faculty and students carry out research in virtually every region of the globe, with Latin America, Southeast Asia, and sub-Saharan Africa as the areas of strongest geographical concentration.

While members of the faculty define themselves professionally in terms of the areas of applied economics within which they work, the graduate programs are predicated on the notion that good applied economic analysis requires rigorous and thorough training in economic theory and econometrics. The Ph.D. curriculum is grounded in comprehensive training in economic theory and econometrics and relies on the doctoral core in theory and econometrics offered by Wisconsin’s outstanding economics program. When matched with the department’s applied courses, which teach students how to use advanced methods to conceptualize and answer contemporary economic problems, this strong core training prepares students for a variety of challenging careers. A A E graduates have taken positions (https://aae.wisc.edu/graduate-student-placement-information) in academic research and teaching; economic consulting in the private sector; and economic staffing in public agencies and nongovernmental organizations at the local, state, national, or international level. A majority of the department’s Ph.D. graduates take faculty positions at universities and colleges.

Department faculty are affiliated with a broad range of institutes and centers across the campus, including the Gaylord Nelson Institute for Environmental Studies, the Center for Integrated Agricultural Systems, the University Center for Cooperatives, the Renk Agribusiness Institute, Center for Community Economic Development, and the international area studies programs. Each program has its own rich intellectual life of seminars and other activities.

The department provides student office space, a lounge, and IT support for its approximately 80 graduate students. The Taylor–Hibbard Club, the department’s graduate student organization, serves as a link between graduate students and the faculty, elects student representatives to department committees, and promotes academic and social activities for its members.

Admissions

For details on the agricultural and applied economics Ph.D. application process, please visit:

To Apply (https://aae.wisc.edu/apply)

For more information on the A A E Ph.D. degree please contact:

Mary Treleven
Graduate Program Coordinator
mtreleven@wisc.edu (http://guide.wisc.edu/graduate/agricultural-applied-economics/agricultural-applied-economics-ms/ mtreleven@wisc.edu)
Phone: 608-262-9489

Graduate School Admissions

Graduate admissions is a two-step process between academic degree programs and the Graduate School. Applicants must meet requirements of both the program(s) and the Graduate School. Once you have researched the graduate program(s) you are interested in, apply online (https://grad.wisc.edu/admissions).

Funding

GRADUATE SCHOOL RESOURCES

Resources to help you afford graduate study might include assistantships, fellowships, traineeships, and financial aid. Further funding information (https://grad.wisc.edu/funding) is available from the Graduate School. Be sure to check with your program for individual policies and processes related to funding.

Program Resources

The department offers a number of research assistantships, and students have competed well for university-wide fellowships. The department's students have also received nationally competitive fellowships and research grants from the National Science Foundation, the Social Science Research Council, the Fulbright programs, and others. New students applying for the Ph.D. who wish to be reviewed for the university fellowship competition must complete their applications by December 15.

Requirements

Minimum Graduate School Requirements

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/ policiesandrequirementstext), in addition to the program requirements listed below.
MAJOR REQUIREMENTS

MODE OF INSTRUCTION

<table>
<thead>
<tr>
<th>Face to Face</th>
<th>Evening/Weekend</th>
<th>Online</th>
<th>Hybrid</th>
<th>Accelerated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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</table>

Mode of Instruction Definitions

**Evening/Weekend:** These programs are offered in an evening and/or weekend format to accommodate working schedules. Enjoy the advantages of on-campus courses and personal connections, while keeping your day job. For more information about the meeting schedule of a specific program, contact the program.

**Online:** These programs are offered primarily online. Many available online programs can be completed almost entirely online with all online programs offering at least 50 percent or more of the program work online. Some online programs have an on-campus component that is often designed to accommodate working schedules. Take advantage of the convenience of online learning while participating in a rich, interactive learning environment. For more information about the online nature of a specific program, contact the program.

**Hybrid:** These programs have innovative curricula that combine on-campus and online formats. Most hybrid programs are completed on-campus with a partial or completely online semester. For more information about the hybrid schedule of a specific program, contact the program.

**Accelerated:** These on-campus programs are offered in an accelerated format that allows you to complete your program in a condensed time-frame. Enjoy the advantages of on-campus courses with minimal disruption to your career. For more information about the accelerated nature of a specific program, contact the program.

CURRICULAR REQUIREMENTS

<table>
<thead>
<tr>
<th>Minimum Credit Requirement</th>
<th>51 credits</th>
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<tr>
<td>Minimum Residence Credit Requirement</td>
<td>32 credits</td>
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</table>

Minimum Graduate Coursework Requirement

Half of degree coursework (26 credits out of 51 total credits) must be completed graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university’s Course Guide. Overall Graduate GPA Requirement

3.00 GPA required.

Other Grade Requirements

Students holding research assistantships are required to maintain an overall 3.2 GPA; grades of B or above in all core curriculum coursework.

Assessments and Examinations

Preliminary examinations are required in microeconomic theory and a major field. The microeconomic theory prelim is administered and graded by the faculty in Economics. Students receiving grades of B or better in the microeconomic theory core can choose not to sit for the prelim. Pass rates for A A E students have historically been around 85%. The major field prelim is administered and graded by the A A E faculty. The Ph.D. also requires a dissertation. Most students' dissertation work includes a period of primary data collection and field work either in this country or abroad, often in the developing world.

Language Requirements

No language requirements.

REQUIRED COURSES

**Economic Theory**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 711</td>
<td>Economic Theory-Microeconomics Sequence</td>
<td>3</td>
</tr>
<tr>
<td>ECON 713</td>
<td>Economic Theory: Microeconomics Sequence</td>
<td>3</td>
</tr>
<tr>
<td>ECON 712</td>
<td>Economic Theory-Macroeconomics Sequence</td>
<td>3</td>
</tr>
<tr>
<td>or ECON 714</td>
<td>Economic Theory-Macroeconomics Sequence</td>
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**Statistics and Econometrics**

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<tr>
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<th>Title</th>
<th>Credits</th>
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<tr>
<td>ECON 709 &amp; ECON 710</td>
<td>Economic Statistics and Econometrics I and Economic Statistics and Econometrics II</td>
<td>6</td>
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<tr>
<td>or</td>
<td></td>
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<tr>
<td>ECON 715 &amp; ECON 716</td>
<td>Econometric Methods and Econometric Methods</td>
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**Major Field**

Complete one of the following fields:

**Community Economics**

Choose 9 credits in consultation with advisor.

**International Development**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>A A E 642</td>
<td>Foundations of Development Economics</td>
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</tr>
<tr>
<td>A A E 730</td>
<td>Frontiers in Development Economics 1</td>
<td></td>
</tr>
<tr>
<td>A A E 731</td>
<td>Frontiers in Development Economics 2</td>
<td></td>
</tr>
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**Economics of Agriculture**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>A A E 641</td>
<td>Foundations of Agricultural Economics</td>
<td></td>
</tr>
<tr>
<td>A A E 746</td>
<td>Frontiers in Agricultural Economics 1</td>
<td></td>
</tr>
<tr>
<td>A A E/ECON 747</td>
<td>Frontiers in Agricultural Economics 2</td>
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</table>

**Environmental and Resource Economics**

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<thead>
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<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>A A E 643</td>
<td>Foundations of Environmental and Natural Resource Economics</td>
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</tr>
<tr>
<td>A A E 760</td>
<td>Frontiers in Environmental and Natural Resource Economics 1</td>
<td></td>
</tr>
<tr>
<td>A A E 762</td>
<td>Frontiers in Environmental and Natural Resource Economics 2</td>
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</table>

**Minor Field**

Students take 9 credits in either an external or distributed doctoral minor.

Total Credits: 33
POLICIES

GRADUATE SCHOOL POLICIES
The Graduate School’s Academic Policies and Procedures (https://grad.wisc.edu/acadpolicy) provide essential information regarding general university policies. Program authority to set degree policies beyond the minimum required by the Graduate School lies with the degree program faculty. Policies set by the academic degree program can be found below.

MAJOR-SPECIFIC POLICIES

GRADUATE PROGRAM HANDBOOK
The Graduate Program Handbook (https://aae.wisc.edu/students/grad-handbook) is the repository for all of the program’s policies and requirements.

PRIOR COURSEWORK
Graduate Work from Other Institutions
With program approval, students are allowed to count no more than 18 credits of graduate coursework from other institutions. Coursework earned ten years or more prior to admission to a doctoral degree is not allowed to satisfy requirements.

UW–Madison Undergraduate
No credits from the UW–Madison undergraduate degree are allowed to count toward the degree.

UW–Madison University Special
With program approval students are allowed to count no more than 15 credits of coursework numbered 300 or above taken as a UW–Madison University Special student. Coursework earned ten years or more prior to admission to a doctoral degree is not allowed to satisfy requirements.

PROBATION
The Graduate School regularly reviews the record of any student who earned grades of BC, C, D, F, or Incomplete in a graduate course (300 or above), or grade of U in research credits. This review could result in academic probation with a hold on future enrollment or in being suspended from the Graduate School.

ADVISOR / COMMITTEE
Every graduate student is assigned to a faculty member advisor. To ensure that students are making satisfactory progress toward a degree, students are expected to meet with their advisor at least once a semester.

CREDITS PER TERM ALLOWED
15 credits

TIME CONSTRAINTS
Students must pass the microeconomic theory requirement before the beginning of year 3. Students must finish all required coursework and pass the major field exam before the beginning of year 4. Students must defend a dissertation proposal before the end of the first semester of year 4.

A candidate for a doctoral degree who fails to take the final oral examination and deposit the dissertation within five years after passing the preliminary examination may be required to take another preliminary examination and to be admitted to candidacy a second time.

Doctoral degree students who have been absent for ten or more consecutive years lose all credits that they have earned before their absence. Individual programs may count the coursework students completed prior to their absence for meeting program requirements; that coursework may not count toward Graduate School credit requirements.

OTHER
Funding packages are offered to selected Ph.D. applicants.

PROFESSIONAL DEVELOPMENT

GRADUATE SCHOOL RESOURCES
Take advantage of the Graduate School’s professional development resources (https://grad.wisc.edu/pd) to build skills, thrive academically, and launch your career.

PROGRAM RESOURCES
The Department of Agricultural and Applied Economics invites applied economists to participate in a seminar series. Students get various presentation opportunities to present their latest research in department and student seminars. All students are required to take a research colloquium which helps students develop their dissertation proposal and plan for their job search. Faculty provide mock interviews and detailed feedback on interviewing skills. A A E placement (https://aae.wisc.edu/graduate-student-placement-information) information is on the department website.

LEARNING OUTCOMES
1. Articulates and critiques theories and empirical methods to address research issues in agricultural, environmental, international development, or community economics.
2. Identifies data sources, applies appropriate econometric methodologies, and evaluates quantitative evidence relevant to questions in agricultural, environmental, international development, or community economics.
3. Creates scholarship that makes a substantive contribution to the chosen major field and/or to society.
4. Clearly communicates applied economics issues, methods, and empirical analysis using both written and oral strategies.
5. Recognizes and applies principles of ethical, collegial and professional conduct.

PEOPLE
Faculty: Professors Foltz (chair), Barham, Chavas, Coxhead, Deller, Gould, Mitchell, Phaneuf, Provencher, Rutherford, Stiegert; Associate Professors
Alix-Garcia, Du, Grainger, Hueth, Schechter, Shi; Assistant Professors
Conroy, Dower, Parker, Tjernström; Faculty Associate Dong