

# AGRICULTURAL AND RESOURCE ECONOMICS (AREC)

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Graduate Degree Program  
College: Agriculture and Natural Resources

## Abstract

The Department offers both M.S. and Ph.D. degrees from one of the nation's premier graduate programs in agricultural and resource economics. Both programs focus on the application of advanced microeconomic theory and econometrics to issues in environmental and resource economics, agricultural economics, and development economics. Courses are taught by leading researchers in those fields, who combine rigorous scholarship with extensive policy experience.

The Department's faculty includes internationally prominent scholars in environmental and resource economics, agricultural economics, and development economics. In recognition of their research, Department faculty members have received such international awards as Germany's Alexander von Humboldt Prize, the American Economic Association's John Bates Clark Medal, and the Agricultural and Applied Economics Association's Quality of Research Discovery and Publication of Enduring Quality Awards, among others. Several have been elected fellows of such professional associations as the Agricultural and Applied Economics Association (formerly the American Agricultural Economics Association), the Association of Environmental and Resource Economists, the Econometric Society, and the American Statistical Association. Department faculty members have served as presidents of the American Agricultural Economics Association and Association of Environmental and Resource Economists and as editors and associate editors of the *Journal of Environmental Economics and Management*, the *American Journal of Agricultural Economics*, the *Journal of Public Economics*, and *Environment and Development Economics*, among others. One faculty member is currently a research fellow of the National Bureau of Economic Research. For additional Department highlights, please visit [www.arec.umd.edu/graduate/prospective-students](http://www.arec.umd.edu/graduate/prospective-students) (<http://www.arec.umd.edu/graduate/prospective-students/>).

The policy experience of the Department's faculty is equal to its scholarship in both quality and extent. Three have served on the staff of the President's Council of Economic Advisers. Other policy experience includes service as consultants to agencies and organizations like the U.S. Department of Justice, the U.S. Department of Agriculture, the Environmental Protection Agency, the World Bank, and the Inter-American Development Bank. The University's location in the Washington, D.C., area provides numerous opportunities for interaction with the World Bank, International Food Policy Research Institute, Resources for the Future, International Monetary Fund, U.S. Department of Agriculture, U.S. Environmental Protection Agency, U.S. Agency for International Development, Food and Drug Administration, Inter-American Development Bank, Census Bureau, and a host of other such institutions and organizations. Questions about the Department's graduate programs should be directed to the Graduate Program Coordinator at [arecgradpgm@umd.edu](mailto:arecgradpgm@umd.edu) or 301-405-1820.

## Financial Assistance

Graduate assistantships are offered to qualified applicants on the basis of past academic performance, research potential, and availability of funds. Many full-time students in the Department hold assistantships or some other form of financial aid. Part-time and summer work are sometimes available for students who do not have assistantships. Graduate fellowships are also available on a competitive basis. The Department offers financial assistance in the form of graduate assistantships and fellowships. All applications are considered for financial assistance.

## Graduate Assistantships

Many of our students are supported by graduate assistantships with responsibilities for either research or teaching. Graduate assistants are expected to work an average of 20 hours a week on their research or teaching duties. They must maintain at least a B average. They are considered employees of the University and are thus covered by health insurance. In addition to a competitive salary, graduate assistants receive tuition remission for up to 10 credits in the fall and spring semesters and up to 8 credits each summer semester.

## Fellowships

The Department awards a number of fellowships each year to highly qualified applicants. Annual fellowship stipends are highly competitive. Fellowship awards also include tuition remission of up to twelve credits per semester. Fellowships are awarded to Ph.D. students for two (2) years. After the expiration of the fellowship, the Department expects to provide Ph.D. fellowship recipients with an additional two years of support as a graduate assistant subject to satisfactory academic progress. All applicants for financial aid are automatically considered for fellowships as well as assistantships.

Financial assistance in the form of loans and work study may also be available. Interested students should contact the University's Office of Student Financial Aid.

## Contact

The AREC Graduate Program website at <http://www.arec.umd.edu/graduate> (<http://www.arec.umd.edu/graduate/>) provides course requirements, examination procedures, and descriptive material for the M.S. and Ph.D. programs.

### Department of Agricultural and Resource Economics

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**Website:** <http://www.arec.umd.edu>

**Courses:** AREC (<https://academiccatalog.umd.edu/graduate/courses/arec/>)

## Admissions General Requirements

- Statement of Purpose
- Transcript(s)

- TOEFL/IELTS/PTE (international graduate students (<https://gradschool.umd.edu/admissions/english-language-proficiency-requirements/>))

## Program-Specific Requirements

- Letters of Recommendation (3)
- Graduate Record Examination (GRE)
- CV/Resume
- Supplementary Application ([https://drupal-base-s3-drupalshare3-1qwpjwcnqwwsr.s3.amazonaws.com/gradschool/s3fs-public/uploads/admissionsforms/umd\\_supplementary\\_application\\_arec.pdf](https://drupal-base-s3-drupalshare3-1qwpjwcnqwwsr.s3.amazonaws.com/gradschool/s3fs-public/uploads/admissionsforms/umd_supplementary_application_arec.pdf))

At a minimum, students entering either the Department's M.S. or Ph.D. program are expected to have the following preparation:

1. Knowledge of macroeconomic theory at the intermediate level and microeconomic theory at the advanced level.
2. Knowledge of multivariate calculus and linear algebra.
3. Knowledge of elementary statistical methods.

Additional coursework in mathematics is desirable—for example, analysis, probability, advanced statistics, or differential equations.

Students are normally admitted to the MS and PhD programs only for the fall semester, because the first year program consists of course sequences that begin only in the fall.

## Transfer from M.S. to Ph.D. Program

Students enrolled in the Department's M.S. program may apply for admission to the Department's Ph.D. program by submitting a new Graduate School application, supplemental transcripts, and three letters of recommendation. The Graduate School application fee is waived if the student applies for the Ph.D. program in or before the semester in which the M.S. degree will be completed. Students within the Department's M.S. program need not submit GRE's when applying for the Ph.D. program.

The University of Maryland's Graduate School accepts applications here (<https://gradapply.umd.edu>). Before completing the application, applicants are asked to check the Admissions Requirements (link is external) site for specific instructions.

As required by the Graduate School, all application materials are to be submitted electronically.

The electronic submission of application materials helps expedite the review of an application. Completed applications are reviewed by an admissions committee in each graduate degree program. The recommendations of the committees are submitted to the Dean of the Graduate School, who will make the final admission decision. Students seeking to complete graduate work at the University of Maryland for degree purposes must be formally admitted to the Graduate School by the Dean.

## Information for International Graduate Students

The University of Maryland is dedicated to maintaining a vibrant international graduate student community. The office of International Students and Scholars Services (<http://globalmaryland.umd.edu/>) (link is external) (ISSS) is a valuable resource of information and assistance for prospective and current international students. International applicants

are encouraged to explore the services they offer, and contact them with related questions. The University of Maryland Graduate School offers admission to international students based on academic information; it is not a guarantee of attendance. Admitted international students will then receive instructions about obtaining the appropriate visa to study at the University of Maryland which will require submission of additional documents. Please see the Graduate Admissions Process for International applicants (<https://www.gradschool.umd.edu/admissions/international-admissions/>) (link is external) for more information.

For more admissions information or to apply to the program, please visit our Graduate School website (<https://gradschool.umd.edu/admissions/application-process/step-step-guide-applying/>).

## Application Deadlines

Type of Applicant	Fall Deadline
<b>Domestic Applicants</b>	
US Citizens and Permanent Residents	8 Jan
<b>International Applicants</b>	
F (student) or J (exchange visitor) visas; A,E,G,H,I and L visas and immigrants	8 Jan

**Other Deadlines:** Please visit the program website at <http://www.arec.umd.edu>

## Requirements

- Agricultural and Resource Economics, Doctor of Philosophy (Ph.D.) (<https://academiccatalog.umd.edu/graduate/programs/agricultural-resource-economics-arec/agricultural-resource-economics-phd/>)
- Agricultural and Resource Economics, Master of Science (M.S.) (<https://academiccatalog.umd.edu/graduate/programs/agricultural-resource-economics-arec/agricultural-resource-economics-ms/>)

## Facilities and Special Resources

The AREC Department provides a 15-seat computer lab for the exclusive use of our graduate students. The lab is available 24 hours a day, 365 days a year. Another 25-seat lab is available by reservation for classes, presentations, and research (e.g., experimental economics sessions). These labs are equipped with thin client devices that connect end users to desktop virtual desktops. This solution allows graduate students to remotely access a virtual desktop with all the applications listed below, as well as their files stored on the network servers. The following applications are available at this time: ArcInfo, Fortran, Mathematica, Matlab, Mozilla Firefox, MS Office, R, SAS, Stata, StatTransfer, TextPad, Lyx and WinEdt. Graduate students can access the AREC network and Internet from home via several remote access methods. A multifunction printer/scanner/copier is available in the graduate student computer lab. Wireless access is available to the campus network.

The Department offers close proximity to an incomparable array of government agencies, international institutions, and non-governmental organizations devoted to environmental issues, agricultural policy, natural resource management, and international development. Opportunities for attending stimulating seminars abound. Many students find useful work experience, access to data, and cutting-edge thesis topics as well as future employment through these organizations. These include (all within approximately 10 miles) the U.S. Environmental Protection Agency, the U.S. Department of Agriculture and U.S. Economic Research Service,

the U.S. Food and Drug Administration, Resources for the Future, the Joint Institute for Food Science and Nutrition, the Joint Global Change Research Institute, the National Center for Smart Growth Research and Education, the National Oceanic and Atmospheric Administration, the World Bank, the Inter-American Development Bank, the International Food Policy Research Institute, the Beltsville Agricultural Research Center with its National Agricultural Library, as well as the U.S. Capitol, Senate, and House of Representatives.