

# AGRICULTURAL AND RESOURCE ECONOMICS, DOCTOR OF PHILOSOPHY (PH.D.)

Requirements for the Ph.D. degree include a minimum of 42 credits of coursework, completion of a four-course field, 12 credits of Ph.D. dissertation research (AREC899), development of a research paper worthy of submission to a well-regarded journal, development and defense of a dissertation prospectus, and successful defense of a Ph.D. dissertation.

The Ph.D. program trains students to design, perform, lead, and implement economic research projects in the fields of environmental and resource economics, agricultural economics, and development economics. It also trains students in how to disseminate research results in the major professional media including journals, reports, conferences, and seminars. It provides rigorous training in microeconomic theory and econometrics and in the application of microeconomics and econometrics to policy issues. Students completing their Ph.D. degrees find employment in academia, U.S. government agencies, international organizations, and consulting firms.

Students must earn a 'B-' or better in each of these courses and a B (3.0) average or better in graduate coursework. First-year students are also expected to complete self-directed instruction regarding econometric software during August and January, attend additional instruction and develop qualifying paper topics during January, and participate in a paper-writing workshop in June at the end of the first year. The June workshop helps students develop their research for publication in academic journals as well as oral presentation. This workshop is useful for fostering the completion of the required research paper.

**Advancement to Candidacy:** In addition to the course requirements below, students are required to submit and pass the Qualifying Paper, develop a research paper worthy of submission to a well-regarded journal, and pass the Ph.D. dissertation prospectus in order to advance to doctoral candidacy.

Course	Title	Credits
Required courses:		
ECON603	Microeconomic Analysis I	3
AREC623	Applied Econometrics I	4
AREC624	Applied Econometrics II	4
AREC620	Optimization in Agricultural and Resource Economics	3
AREC610	Microeconomic Applications in Agricultural and Resource Markets	3
ECON604	Microeconomic Analysis II	3
Select six elective courses, at least four of which must be chosen from the following:		18
AREC784	Energy Economics, Empirical Industrial Organization, and Public Policy	
AREC829	Policy Design and Causal Inference for Social Science	

AREC847	Networks, Social Learning and Technology Adoption	
AREC783	Environmental Taxation and Regulation	
AREC785	Advanced Economics of Natural Resources	
AREC815	Experimental and Behavioral Economics	
AREC825	Advanced Economic Welfare Analysis	
AREC832	Agricultural Policy Analysis	
AREC846	Development Microeconomics	
ECON781	Valuing Environmental Benefits	
AREC891	Introduction to Prospectus Development <sup>1</sup>	1
AREC892	Dissertation Prospectus Development <sup>2</sup>	3
<b>Dissertation Research Requirements</b>		
AREC899	Doctoral Dissertation Research (minimum of 12 research credits)	12
<b>Total Credits</b>		<b>54</b>

<sup>1</sup> During the spring semester of their second-year, students are also required to take a 1-credit course intended to help students develop a dissertation topic.

<sup>2</sup> This requirement is waived for any student who has completed a dissertation prospectus and passed a prospectus examination before the fall semester of the third year.