

PH.D. IN AGRICULTURAL AND RESOURCE ECONOMICS

The Ph.D. offered by the Department of Agricultural and Resource Economics consists of 72 credits plus a substantial work of original research in the form of a dissertation. Completion of the Ph.D. in Agricultural and Resource Economics generally signifies a mastery of advanced microeconomic theory and quantitative methods, with a particular expertise in either agricultural economics or environmental and natural resource economics. Ph.D. graduates are experts in applied economics and are trained to develop and execute innovative research programs, teach undergraduate and graduate level economics courses, and present theoretical and applied economic concepts and results to a wide variety of audiences. Graduates of this program have gone on to succeed in a variety of positions at universities, in the public sector (e.g. USDA, ERS), and private enterprises including consulting firms.

Students interested in graduate work should refer to the Graduate and Professional Bulletin (<https://catalog.colostate.edu/general-catalog/graduate-bulletin/>).

Learning Objectives

Upon successful completion, students will be able to:

1. Apply research that contributes understanding and solutions to problems relevant to their sub-discipline specialties.
2. Communicate economic concepts, analysis, and findings in both oral and written forms across a wide range of professional settings.
3. Teach economic theory and methods as applied to agricultural and natural resource problems.

Requirements Effective Fall 2020

Code	Title	Credits
Core Courses		
AREC 506/ECON 506	Applied Microeconomic Theory	3
AREC 570/ECON 530	Methodology of Economic Research	3
AREC 606/ECON 606	Microeconomic Analysis I	3
AREC 615	Optimization Methods for Applied Economics	3
AREC 635/ECON 635	Econometric Theory I	3
AREC 706/ECON 706	Microeconomic Analysis II	3
AREC 735/ECON 735	Econometric Theory II	2
AREC 770	Advanced Methods in Applied Economics	3
ECON 501	Quantitative Methods for Economists	3
Field Courses		
Select one from the following:		9-12
Group A:		
AREC 605	Agricultural Production and Cost Analysis	
AREC 610	Agricultural Marketing and Demand Analysis	
AREC 705	Advanced Production and Technological Change	
AREC 710	Advanced Agricultural Marketing Issues	

Group B:		
AREC 540/ ECON 540	Environmental and Natural Resource Economics	
AREC 740/ ECON 740	Advanced Natural Resource Economics	
AREC 741/ ECON 741	Advanced Environmental Economics	
Electives		
Electives ^{1,2}		22-25
Research and Dissertation		
AREC 799	Dissertation	12
Exams		
Exams ³		0
Program Total Credits:		72

A minimum of 72 credits are required to complete this program.

¹ Select courses with approval of advisor and committee.

² Student may apply an earned Master's degree for up to 30 credits toward the PhD requirements. Specific course requirements will be substituted where evidence of equivalent learning outcomes is demonstrated.

³ Students must pass the written Ph.D. Qualifying Examinations in Quantitative Methods and in Microeconomics, the field Examination, the preliminary Oral Examination, and the final Oral Examination.

Requirements for All Graduate Degrees

For more information, please visit Requirements for All Graduate Degrees (<https://catalog.colostate.edu/general-catalog/graduate-bulletin/graduate-study/procedures-requirements-all-degrees/>) in the Graduate and Professional Bulletin (<https://catalog.colostate.edu/general-catalog/graduate-bulletin/>).

Summary of Procedures for the Master's and Doctoral Degrees

NOTE: Each semester the Graduate School publishes a schedule of deadlines. Deadlines are available on the Graduate School website (<https://graduateschool.colostate.edu/deadline-dates/>). Students should consult this schedule whenever they approach important steps in their careers.

Forms (<https://graduateschool.colostate.edu/forms/>) are available online.

Step	Due Date
1. Application for admission (online)	Six months before first registration
2. Diagnostic examination when required	Before first registration
3. Appointment of advisor	Before first registration
4. Selection of graduate committee	Before the time of fourth regular semester registration
5. Filing of program of study (GS Form 6)	Before the time of fourth regular semester registration
6. Preliminary examination (Ph.D. and PD)	Two terms prior to final examination

7. Report of preliminary examination (GS Form 16) - (Ph.D. and PD)	Within two working days after results are known
8. Changes in committee (GS Form 9A)	When change is made
9. Application for Graduation (GS Form 25)	Refer to published deadlines from the Graduate School Website
9a. Reapplication for Graduation (online)	Failure to graduate requires Reapplication for Graduation (online) for the next time term for which you are applying
10. Submit thesis or dissertation to committee	At least two weeks prior to the examination or at the discretion of the graduate committee
11. Final examination	Refer to published deadlines from the Graduate School Website
12. Report of final examination (GS Form 24)	Within two working days after results are known; refer to published deadlines from the Graduate School website
13. Submit a signed Thesis/ Dissertation Submission Form (GS Form 30) to the Graduate School and Submit the Survey of Earned Doctorates (Ph.D. only) prior to submitting the electronic thesis/ dissertation	Refer to published deadlines from the Graduate School website.
14. Submit the thesis/dissertation electronically	Refer to published deadlines from the Graduate School website
15. Graduation	Ceremony information is available from the Graduate School website