

**Department of Agricultural and Applied Economics  
Graduate Student Policy and Procedures**

**Academic Year  
2018 – 2019**

*All earlier versions of this statement are considered null and void. All current students must adhere to the policies contained in this document.*

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[www.grad.uga.edu](http://www.grad.uga.edu)

[www.caes.uga.edu/departments/agecon/](http://www.caes.uga.edu/departments/agecon/)

**Graduate Student Policy and Procedures**  
**Department of Agricultural and Applied Economics**

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## PREFACE

The *Graduate Student Policy and Procedures* handbook is provided as a supplement to the *Graduate School Bulletin* and should be referred to for all graduate student policy and procedural matters approved and established by the faculty in the Department of Agricultural and Applied Economics. It should be emphasized that this document is not intended to duplicate material provided in other Graduate School documents. Students should continue to refer to the *Graduate School Bulletin* for all university policy and procedural matters. As a complement to the university's policy and procedures, this document describes unique departmental policy and procedures<sup>1</sup>.

### History

#### Department of Agricultural and Applied Economics

The department was organized in 1928, and during its early years the faculty was small, varying from two to five members. Due to a lack of funding, the department was closed in 1933 and agricultural economics classes were offered in the Franklin College Department of Commerce. A year later, the department was reestablished in the College of Agriculture and the faculty began to grow, expanding roles into research, outreach, and graduate education.

#### Department's Graduate Programs

After World War II, the M.S. program greatly expanded with the influx of military veterans and has continued throughout its existence to be a very active and solid program. In 1971, the Ph.D. program was established, offering a strong complement to the M.S., research, and outreach programs within the department. In 1999, the M.S. was split into an M.S. in agricultural economics and an M.S. in environmental economics. This was followed in 2009 with the establishment of the Masters in Agribusiness degree.

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<sup>1</sup> As changes to this document may occur in the future, students should refer to the handbook associated with the academic year in which they were admitted to their current degree objective. Students may also follow the policies and procedures of a handbook associated with a subsequent academic year.

## Graduate School Policy and Procedures

Refer to the [Graduate School Bulletin](#) and the [Graduate School](#)'s web site ([grad.uga.edu](http://grad.uga.edu)) for all university policy, procedures, and Graduate School forms. Department policy and procedures outlined below do not override any of the university's. Instead they are designed to supplement university policy. *It is the responsibility of the student to meet all university and department requirements.*

### Professionalism and Ethics

#### Academic Honesty

The University of Georgia seeks to promote and ensure academic honesty and personal integrity among students and other members of the University community. All students at The University of Georgia are expected to read and comply with *A Culture of Honesty*, the University's academic honesty policy. A student participating in any dishonest activity will be subjected to academic dismissal. Any form of cheating on examinations or plagiarism will not be tolerated.

#### Admission

For admission the following are sent to the Graduate School:

- Admission application
- Current resume
- Statement of Purpose
- Transcripts from all colleges and universities attended
- Graduate Record Examination (GRE) scores
- Three letters of reference

International students must also submit official TOEFL or IELTS scores that satisfy the Graduate School minimum requirements<sup>2</sup>. All of these factors are taken into account by the departmental Graduate Committee as it considers an application.

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<sup>2</sup> Applicants who have received degrees from accredited institutions in the U.S. or from institutions in countries where English is the primary language usually are not required to submit the TOEFL (or IELTS) scores. See [English Proficiency Requirement](#) for details.

### **Programs of Study**

The graduate programs in Agricultural and Applied Economics offer considerable flexibility in meeting individual student interests and backgrounds so students can prepare for careers in industry, government, or academia. As a foundation for this preparation, all students first obtain a core understanding of economic theory and quantitative skills. Based on this core, student programs are then designed on the individual research topics and interests of students. This results in all students acquiring the following tools once they complete their degree programs:

1. Proficiency in problem-solving methodology (research methods) including professional ethics.
2. Ability to apply economic theory and quantitative techniques to the analysis and solution of contemporary problems and issues.
3. Proficiency in conducting independent research and the development of a high order of independent thought.
4. Capacity to read, synthesize, and critically evaluate literature in economics.
5. Ability to work and communicate effectively with diverse groups and audiences.
6. Broad knowledge base and understanding of applied economics.

### **Departmental Seminars**

The department conducts a seminar program during the regular school year. Graduate students are required to register for one credit hour of seminar each fall and spring semester during their graduate program. THE ONLY STUDENTS EXEMPT FROM REGISTERING FOR SEMINAR EACH SEMESTER ARE PHD STUDENTS WHO HAVE ENTERED CANDIDACY. In addition, each student is required to present individual seminars related to his or her thesis or dissertation plans or results.

### **Financial Assistance**

Funds are available through the department for research or teaching assistantships. An application for an assistantship should be submitted to the graduate coordinator. Research assistantships are for research support and relate directly to the research program of the department. These assistantships represent both an opportunity and a responsibility for the recipient. The department is sensitive to the dual roles of a

graduate assistant as both a student and a temporary university employee. Graduate assistantships offer a professional, productive, and rewarding component of the total academic program and experience of a graduate student. They contribute both to the educational goals of a graduate student and the research, teaching, and extension programs of the department. MS, MAB, and PhD students receiving financial assistance may be assigned to serve as teaching assistants, depending on the needs of the department. MS and MAB students should expect to serve as a teaching assistant for at least one semester, while PhD students should expect to serve as a teaching assistant for at least 2 semesters.

By the specific deadline for each program (see checklists for programs), a student should have selected a permanent major professor. This process involves contacting prospective major professors and discussing possible mutual academic interests. The graduate coordinator provides advice on selection of a permanent major professor and considers the expressed desires of the student and the availability and willingness of faculty to serve. As students matriculate through their graduate programs, the emphasis of their graduate assistantships is often, but not necessarily, on work related to their theses or dissertations. The student's major professor generally has the primary responsibility for supervising the graduate student's assistantship work. However, graduate assistants may be assigned by the department head to other research, teaching, or support tasks.

### ***Length of Time and Remuneration***

Assistantships are awarded for a specific contractual period. Failure to meet academic standards or specific policy requirements may result in revocation or nonrenewal of an assistantship. Students making normal progress toward their degree objective are eligible for renewal of assistantships.

### ***Work Schedule***

A full-time professional commitment to the career of agricultural and applied economics is implied in the one-third time assistantship. A regular daily work and class schedule should be prepared under supervision of the major professor. A graduate student on an assistantship is considered a regular employee of the department. University office hours are 8:00 a.m. - 5:00 p.m., Monday through Friday,

exclusive of holidays. Students receiving funding for projects headquartered outside the Athens campus should be prepared to travel to project headquarters as necessary.

### **Agricultural and Applied Economics Graduate Student Association**

The Graduate Student Association was organized in 1969. The purpose of this organization is to serve as a liaison between graduate students and the faculty of the Department of Agricultural and Applied Economics. The graduate students may meet to discuss academic issues or problems and recommend reforms. The association encourages fellowship among students and faculty by organizing seminars, athletic events, and social gatherings. The exchange of ideas and the promotion of academic excellence are fostered through the graduate student outstanding papers award, outstanding faculty award, and the annual Ron Ziemer symposium. All students are urged to support the Graduate Student Association by regular attendance and active participation.

### **Department Services Available to Graduate Students**

Within the limit of resources available, the department attempts to provide support to students in the form of supplies, equipment, facilities, and staff services.

#### ***Supplies***

The department will provide all necessary supplies directly associated with the student's teaching and research activities. Supplies cannot be furnished, however, for general coursework or for personal use.

#### ***Use of Departmental Equipment***

Computers and other equipment necessary for teaching or research are provided. This equipment represents a significant investment and annual operating expense for the department. Graduate students should become familiar with the proper operation and care of this equipment. Rooms in which this equipment is available should be locked after hours. Any malfunctioning of a piece of equipment should be reported to the computer support staff for proper servicing. Do not load unauthorized programs onto



any departmental computers, either in the lab or student offices. See a member of the computer support staff and your major professor to obtain permission to load computer programs.

### ***Telephones***

Long distance calls for business purposes may be made with a special access code, available from the office manager. Each office has voice mail and its own procedure for checking voice mail.

### **Exit Interviews**

At the end of students' graduate program, they have an opportunity to meet with the department head for exit interviews. These interviews should be scheduled around two weeks prior to completing the program, and provide an opportunity to comment and offer suggestions on how the graduate program can be improved. The opportunity also exists for completing a confidential questionnaire on the graduate program.

### **Research Collaboration**

The educational training and professional opportunities of graduate students can be significantly enhanced by working collaboratively with faculty on research projects. Such collaboration normally occurs as a result of graduate assistantship research and thesis or dissertation research. When it does not interfere with assigned graduate assistantship duties or orderly and timely completion of a thesis or dissertation, graduate students are also encouraged to work collaboratively with faculty on research and professional publications not necessarily related to a student's graduate assistantship duties or thesis/dissertation. Graduate students should keep their major professor informed of any papers that they submit to meetings or journals, whether or not they are co-authored with the major professor.

### **M.S. Degree Programs**

M.S. degree programs require 33 hours: a minimum of 27 hours of coursework (14 hours must be UGA courses open only to graduate students), 3 hours of AAEC 7000 (Research), and 3 hours of AAEC 7300 (Thesis). Although a student will register for more than three hours of research, only three hours may be used to meet degree requirements. Students must register for 3 hours of AAEC 7300 the semester they

graduate. Each graduate student pursuing an M.S. degree must have an approved advisory committee consisting of a major professor from within the department with graduate faculty status as chair, and two or more additional members, with at least one with graduate faculty status. One of the additional members must also be a member of the departmental faculty. As a matter of practice, most MS students will be expected to function as a teaching assistant at least one semester during their program of study.

**Prerequisites.** Calculus, intermediate microeconomics, and probability, statistics, or econometrics are prerequisites for the M.S. program. Econometrics, intermediate macroeconomics, and linear algebra are recommended for the M.S. program. Any student not meeting these prerequisites will take coursework to meet the requirements in addition to the 27 hour minimum. As an aid toward filling these prerequisites, an intermediate microeconomics class will be offered just prior to the fall semester. Students taking the review course must prepare to be on campus prior to Fall classes, usually in early July.

**Advisory Committee.** For the first semester, students will ordinarily be advised by the graduate coordinator, although a temporary major professor may be assigned. Selection of an advisory committee during the second semester of residence is based on the expressed desires of the student and the availability and willingness of faculty to serve. Final approval of the committee is made by the dean of the Graduate School after review and approval by the graduate coordinator. The major professor and at least one other member must be a member of the graduate faculty. The advisory committee form must be submitted to the Graduate School by the mid-point of the student's second semester. The site for the live form is available on the [Graduate School website](#) .

**Program of Study.** A student's program of study (courses) and thesis outline are developed in consultation with his or her advisory committee. This program of study is subject to approval by the graduate coordinator and the dean of the Graduate School. The minimum residence requirement is one academic year. A student's program of study should be approved by the graduate coordinator no later than the beginning of finals week in the second semester. The program of study form is also available on the [Graduate School website](#). While an advisory committee will provide guidance in initiating a thesis and in conducting the research, the responsibility for the completion of the thesis is entirely that of the

graduate student. The normal time for completing an acceptable M.S. thesis is six months full-time. From the thesis, a student is required to prepare, with the supervision and assistance of the advisory committee, a manuscript for publication. All master's students are required to give a departmental seminar on their thesis research prior to their graduation. The seminar must be scheduled with the chair of the seminar/communications committee at least two weeks in advance.

### Sample of First Fall Semester M.S. Courses

AAEC 6580-6580L Microeconomics: Theory with Applications I	4 hours
AAEC 6610-6610L Quantitative Techniques in Agricultural Economics	4 hours
AAEC 8210 Macroeconomic Issues in Agricultural and Natural Resources	3 hours
AAEC 8010 Seminar Program	1 hour
AAEC 7000 Research	6 hours

Courses in the remaining semesters will vary depending on the requirements in a particular M.S. program and the student's graduate advisory committee. Table 1 lists the graduate courses offered.

**Table 1.** Graduate Level Courses\*

Course	Title
AAEC 4050/6050	Agribusiness Law
ENVM(EHSC) 4250/6250	Environmental and Public Health Law
AAEC(ENVM) 4510/6510	Land Economics and Appraisal
ENVM 4650/6650	Environmental Economics
AAEC(ENVM) 4710/6710	Rural Economic Development and Growth
ENVM 4800/6800	Water Resource Economics and Management
AAEC 4870/6870	Futures and Option Markets
ENVM(AAEC) 4930/6930	Environmental Law and Governmental Regulation
AAEC 4980/6980	Agribusiness Management
AAEC 6640	Food, Marketing and Merchandising
AAEC 6580-6580L	Microeconomics: Theory with Applications I
AAEC 6590	Microeconomics: Theory with Applications II
AAEC6610	Quantitative Techniques in Agricultural Economics
AAEC 6610L	Quantitative Methods in Agricultural Economics Lab

AAEC 6620	Applied Econometrics
AAEC 6740	Agribusiness Finance
AAEC 6960	International Agricultural Trade
FANR(AAEC) 7860	Natural Resource Economics I
AAEC 8020	Accounting for Agribusiness
AAEC 8100	Nonmarket Economic Valuation Techniques and Applications
AAEC 8140	Consumer Demand Theory
AAEC 8150	Experiment and Survey Design
AAEC 8210	Macroeconomics Issues in Agricultural and Natural Resources
AAEC 8500	Price Analysis
AAEC 8610	Advanced Econometric Applications
AAEC(ECOL) 8700	Environmental Economics and Policy Analysis
AAEC 8710	Agricultural Development and Growth Analysis
AAEC 8750	Natural Resource Economics II
AAEC 8800	Dynamic Optimization in Agricultural and Resource Economics

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\*Masters students must get permission from instructor before enrolling in Ph.D. 8000 level courses.

## M.S. Degree in Agricultural & Applied Economics

### Requirements

- A. Theory and quantitative requirements (17 hours)
  - AAEC 6580-6580L Microeconomics: Theory with Applications I (4 hours)
  - AAEC 6590 Microeconomics: Theory with Applications II (3 hours)
  - AAEC 6610-6610L Quantitative Techniques in Agricultural Economics (4 hours)
  - AAEC 6620 Applied Econometrics (3 hours)
  - AAEC 8210 Macroeconomic Issues in Agricultural and Natural Resources (3 hours)
- B. AAEC - 9 hours minimum, 6000 or above from Table 1. These hours cannot include the theory and quantitative requirements, AAEC 7300, or AAEC 7000.
- C. AAEC 8010 Seminar Program (1 hour can count toward the 27 hour minimum).
- D. Successful completion of [the Institutional Review Board online training module](#) related to Social and Behavioral Research before the end of your first academic semester.
- E. Preparation of an acceptable thesis.
- F. Preparation of a draft article for publication in an academic journal.
- G. Presentation of a thesis seminar.
- H. Passing of a final oral examination.

## M.S. Degree in Environmental Economics

Prerequisite/Co-requisite ENVM(AAEC) 4930/6930 Environmental Law and Governmental Regulation or equivalent. (Note: this does not count toward your 27 hours of course work.)


### Requirements

- A. Theory and quantitative requirements (23 hours)
  - AAEC 6580-6580L Microeconomics: Theory with Applications I (4 hours)
  - AAEC 6590 Microeconomics: Theory with Applications II (3 hours)
  - AAEC 6610-6610L Quantitative Techniques in Agricultural Economics (4 hours)
  - AAEC 6620 Applied Econometrics (3 hours)
  - FANR/AAEC 7860 Natural Resource Economics I (3 hours)
  - AAEC 8210 Macroeconomic Issues in Agricultural and Natural Resources (3 hours)
  
- B. Concentration Course Electives (6 hours) -- choose at least 2 course from below:
  - AAEC(ENVM) 6510 Land Economics and Appraisal (3 hours)
  - ENVM 6800 Water Resource Economics and Management (3 hours)
  - AAEC 8100 Nonmarket Economic Valuation Techniques and Applications (3 hours)
  - AAEC 8150 Experiment and Survey Design (3 hours)
  - AAEC(ECOL) 8700 Environmental Economics and Policy Analysis (3 hours)
  - AAEC 8750 Natural Resource and Environmental Economics II (3 hours)
  
- C. AAEC 8010 Seminar Program (1 hour can count toward the 27 hour minimum).
  
- D. Successful completion of the [Institutional Review Board online training module](#) related to Social and Behavioral Research before the end of your first academic semester.
  
- E. Preparation of an acceptable thesis.
  
- F. Preparation of a draft article for publication in an academic journal.
  
- G. Presentation of a thesis seminar.
  
- H. Passing of a final oral examination.

### *Check List for M.S. Degree*

*Check the Graduate School website for all deadlines. Forms must be submitted by deadline dates. Meeting deadlines are entirely the student's responsibility and students will not be informed or reminded of these deadlines.*

Date Completed:

1. \_\_\_\_\_ Electronically submit to the Graduate School the [Advisory Committee for Master of Arts and Master of Science Candidates form](#) by the mid-point of second semester in residence.
2. \_\_\_\_\_ Submit to the Graduate School the completed [Program of Study for Master of Arts and Master of Science Candidates form](#) before the beginning of finals week of second semester in residence.<sup>3</sup>
3. \_\_\_\_\_ Submit to the Graduate School the completed *Application for Graduation (on Athena)* by the deadline posted [on the Graduate School website](#).
4. \_\_\_\_\_ Thesis submitted to advisory committee at least two weeks prior to date of thesis defense.
5. \_\_\_\_\_ Electronically submit to the Graduate School the thesis for a format check before the deadline posted [on the Graduate School website](#) of the graduation semester.
6. \_\_\_\_\_ Thesis seminar. A two week notice must be given to the chair of the Seminar/Communications committee.
7. \_\_\_\_\_ Submit to the Graduate School the completed *Electronic Thesis and Dissertation (ETD) Submission Approval* form by the deadline posted [on the Graduate School website](#).
8. \_\_\_\_\_ Submit to the graduate program administrator a computer file containing the thesis, data (unless protected by confidentiality), and programs, and obtain a completed *Reference Room Clearance Form*.
9. \_\_\_\_\_ Submit to the graduate coordinator the completed *Reference Room Clearance* form (available from graduate program administrator).
10. \_\_\_\_\_ Submit to the graduate coordinator the completed *Article Preparation* form signed by your committee chair. 
11. \_\_\_\_\_ Submit to the Graduate School the completed [Approval Form for Master's Thesis Defense and Final Examination form](#) by the deadline posted [on the Grad School website](#). The graduate coordinator will not sign this form until the *Reference Room Clearance* form and the *Article Prep* form have been completed.
12. \_\_\_\_\_ Complete exit survey and interview with department head.
13. \_\_\_\_\_ Return office key to graduate program administrator.

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<sup>3</sup> A grade point average of 3.0 must be maintained across all graduate courses taken and no course grade below 2.0 will be accepted as part of the program of study.

**M.A.B. Degree**

The Masters of Agribusiness (M.A.B.) is aimed at preparing students for a successful career in the field of agribusiness by developing a high degree of competence in all fields related to agribusiness management and decision making.

**Curriculum Requirements.** The M.A.B. degree requires 34 hours of coursework along with a technical paper. Each graduate student pursuing an M.A.B. degree must have an approved advisory committee consisting of at least two members. The committee chair must be a member of the AAEC faculty and the Graduate Faculty; the second member can come from any department within the University of Georgia. The committee must be chosen before the end of the first semester. Selection of the advisory committee is based on the expressed desires of the student and the availability and willingness of faculty to serve. Final approval of the committee is made by the graduate coordinator. A unified set of courses that constitutes a logical whole – a student’s Program of Study – must be selected by the student in consultation with the student’s advisory committee.

**Prerequisites.** Calculus, intermediate microeconomics, and probability, statistics or econometrics are prerequisites for the M.A.B. program. Econometrics, intermediate macroeconomics, and linear algebra are recommended. Any student not meeting these prerequisites will take coursework to meet the requirements in addition to the 34 hour minimum. As an aid toward filling these prerequisites, an intermediate microeconomics class will be offered just prior to the Fall semester. Students taking the review course must prepare to be on campus prior to Fall classes, usually in early July.

**Program of Study.** A student's program of study and outline of a technical paper are developed in consultation with his or her advisory committee. This program of study is subject to approval by the graduate coordinator and the dean of the Graduate School. The minimum residence requirement is one academic year. A student’s program of study should be approved by the graduate coordinator no later than in the second semester. Only one hour of AAEC 8010 may count toward the required 34 hours of course work. The [Program of Study \(Non-Doctoral Professional Degrees\)](#) is available on the Graduate School website. While an advisory committee will provide guidance in initiating a technical paper and in



conducting the research, the responsibility for the completion of the paper is entirely that of the graduate student. The normal time for completing an acceptable paper is one semester. All M.A.B. students are required to give a departmental seminar on their technical paper prior to their graduation. The seminar must be scheduled with the chair of the Seminar/Communications committee at least two weeks in advance.

### **Sample of First Fall Semester M.A.B. Courses**

AAEC 6630 Quantitative Tools for Agribusiness Management	3 hours
AAEC 6640 Food Marketing and Merchandising	3 hours
AAEC 6730 Agribusiness Accounting	3 hours
AAEC 6740E Agribusiness Financial Management	3 hours
AAEC 8010 Seminar Program	1 hour

### **Sample of First Spring Semester M.A.B. Courses**

AAEC 6570 Economic Tools for Business Decisions	3 hours
AAEC 6980 Agribusiness Management	3 hours
Elective	3 hours
Elective	3 hours
AAEC 8010 Seminar Program	1 hour

### **Sample of Final Semester M.A.B. Courses**

AAEC 7310 Topics in Agricultural and Applied Economics (MAB research project)	3 hours
Elective	3 hours
Elective	3 hours
AAEC 8010 Seminar Program	1 hour

### **Requirements**

#### **A. Business management and quantitative requirements (22 hours)**

AAEC 6570 Economic Tools for Business Decisions (3 hours)
AAEC 6630 Quantitative Tools for Agribusiness Management (3 hours)
AAEC 6640 Food Marketing and Merchandising (3 hours)
AAEC 6730 Agribusiness Accounting (3 hours)
AAEC 6740E Agribusiness Financial Management (3 hours)
AAEC 6980 Agribusiness Management (3 hours)
AAEC 7310 Topics in Agricultural and Applied Economics (MAB research project) (3 hours)
AAEC 8010 Seminar in Agricultural and Applied Economics (1 hour)

- B. Concentration Course Electives (12 hours) -- choose four courses from below or other courses approved by student's advisory committee:

AAEC 6870 Futures and Options Markets

AAEC(ENVM) 6510 Land Economics and Appraisal

ENVM 6650 Environmental Economics

AAEC(ENVM) 6710 Rural Economic Development and Growth

AAEC 6050 Agribusiness Law

ENVM 6800 Water Resource Economics and Management

AAEC 8210 Macroeconomic Issues in Agricultural and Natural Resources



MARK 7150 Marketing Research Planning, Management, and Communication

- C. A technical paper based on the student's work in AAEC 7310 (in lieu of a thesis) is required. The subject and structure of the technical paper will be developed in consultation with the student's advisory committee. This paper must be approved by the student's advisory committee and a report of satisfactory achievement must be filed with the Graduate School.
- D. Successful completion of the [Institutional Review Board online training module](#) related to Social and Behavioral Research before the end of the first academic semester.

### ***Check List for M.A.B. Degree***

*Check the Graduate School website for all deadlines. Forms must be submitted by deadline dates. Meeting deadlines are entirely the student's responsibility and students will not be informed or reminded of these deadlines.*

Date Completed:

1. \_\_\_\_ Submit to the graduate coordinator the completed *Advisory Committee for Master of Agribusiness* form  by the end of first semester in residence. This is filed in the department.
2. \_\_\_\_ Submit to the Graduate School the completed [\*Program of Study \(Non-Doctoral Professional Degrees\)\*](#) form (on Graduate School website) before the beginning of finals week of the second semester in residence.<sup>1</sup>
3. \_\_\_\_ Submit to the Graduate School the online *Application for Graduation* ([on Athena](#)) by the [deadline posted on the Graduate School website](#).
4. \_\_\_\_ Submit to the Graduate School the completed *Approval Form for Technical Paper*  by the [deadline posted on the Graduate School website](#) (Final Defense Approval form date).
5. \_\_\_\_ Complete exit survey and interview with department head.
6. \_\_\_\_ Return office key to graduate program administrator.

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<sup>1</sup>A grade point average of 3.0 must be maintained across all graduate courses taken and no course grade below 2.0 will be accepted as part of the program of study.

### **Ph.D. Degree in Agricultural and Applied Economics**

The Ph.D. degree requires 60 semester hours of coursework beyond the bachelor's degree. This includes 3 hours of AAEC9000 (Research), 3 hours of AAEC9300 (Dissertation), and preparation of an acceptable dissertation. As a matter of practice, most Ph.D. students will be expected to function as a teaching assistant at least two semesters during their program of study.

**Prerequisites.** Calculus, intermediate microeconomics, and probability, statistics, or econometrics are prerequisites for the Ph.D. program. Master's level microeconomics, econometrics, and macroeconomics along with mathematical statistics and linear algebra are recommended for the Ph.D. program. Note that ECON 8000 is a required course for the PhD degree. It also serves as a prerequisite for ECON 8010, another required course. ECON 8000 begins in mid-July and meets daily for 3 weeks. All in-coming PhD students should arrange to arrive on campus no later than the beginning of July in order to attend ECON 8000.

**Advisory Committee.** During the first semester, students should interact with faculty and discover areas of shared interest. For this first semester, students will ordinarily be advised by the graduate coordinator, although a temporary major professor may be assigned. Each graduate student pursuing a Ph.D. degree must have an approved advisory committee consisting of the major professor as chair and two or more additional members. Selection of the advisory committee is based on the expressed desires of the student and the availability and willingness of faculty to serve. Final approval of the committee is made by the dean of the Graduate School after review and approval by the graduate coordinator. Changes in the major professor can be made only with the mutual agreement of the student, both old and new major professors, and the graduate coordinator. The major professor must be a member the AAEC faculty and of the Graduate Faculty, and more than 50% of the advisory committee must be Graduate Faculty. The advisory committee, in consultation with the student, is responsible for planning the student's program of study and choosing a subject for the dissertation.

The Advisory Committee form must be submitted to the Graduate School after completion of the first year of residence (the end of the second semester enrolled). The site for the live form is available on the

[Graduate School website](#) . While the advisory committee will guide the student in initiating the dissertation, the completion of the research and the dissertation is entirely the responsibility of the student. The preparation of a Ph.D. dissertation will normally require a minimum of 12 months full-time.

**Program of Study.** A [final program of study](#) will be submitted to the Graduate School prior to notification of the oral comprehensive examination. Courses from the master's degree and courses taken at other universities should be listed in the "Relevant Master's or Other Graduate Degree Courses" section of the program of study form.

### Requirements

A. Course requirements (31 hours)

ECON 8000 Mathematical Analysis for Economists (3 hours)  
 AAEC 8010 Seminar in Agricultural and Applied Economics (1 hour)  
 ECON 8010 Microeconomic Theory I (3 hours)  
 ECON 8020 Microeconomic Theory II (3 hours)  
 ECON 8040 Macroeconomic Theory I (3 hours)  
 ECON 8070 Statistics for Econometrics or STAT 6510 Mathematical Statistics I (3 hours)  
 ECON 8080 Introduction to Econometrics (3 hours)  
 ECON 8110 Econometrics I or AAEC 8610 Advanced Econometric Applications (3 hours)

Select three of the following seven courses beyond the above required courses

AAEC 8100 Economic Valuation (3 hours)  
 AAEC 8150 Experiment and Survey Design (3 hours)  
 AAEC 8610 Econometric Applications (3 hours)  
 AAEC 8800 Dynamic Optimization in Agricultural and Resource Economics (3 hours)  
 ECON 8110 Econometrics I (3 hours)  
 ECON 8120 Econometrics II or AAEC 8610 (3 hours)  
 ECON 8130 Time Series Econometrics or STAT 8280 Time Series Analysis (3 hours)

B. Three AAEC concentration course electives (9 hours):

AAEC 8140 Consumer Demand Theory (3 hours)  
 AAEC 8210 Macroeconomics Issues in Agricultural and Natural Resources (3 hours)  
 AAEC 8400 Agricultural Market Structure and Analysis (3 hours)  
 AAEC 8500 Price Analysis (3 hours)  
 AAEC 8700 Environmental Economics and Policy Analysis Growth (3 hours)  
 AAEC 8710 Agricultural Development and Growth (3 hours)  
 AAEC 8750 Natural Resource Economics II (3 hours)

### Suggested areas of concentration

#### Agricultural economics

AAEC 8140 Consumer Demand Theory  
 AAEC 8150 Experiment and Survey Design  
 AAEC 8800 Dynamic Optimization in Agricultural and Resource Economics  
 AAEC 8400 Agricultural Market Structure and Analysis  
 AAEC 8500 Price Analysis

#### Development economics

AAEC 8150 Experiment and Survey Design  
 AAEC 8210 Macroeconomics Issues in Agricultural and Natural Resources  
 AAEC 8710 Advanced Agricultural Development and Growth

#### Environmental and natural resource economics

AAEC 8100 Economic Valuation  
 AAEC 8150 Experiment and Survey Design  
 AAEC 8800 Dynamic Optimization in Agricultural and Resource Economics  
 AAEC 8700 Advanced Environmental Economics and Policy Analysis  
 AAEC 8750 Natural Resource Economics II

- C. Successful completion of written and oral comprehensive qualifying examinations.

**Seminars.** All Ph.D. students are required to give at least two departmental seminars on their research. Each student must present a prospectus seminar outlining the proposed dissertation research (problem statement, objectives, theory, possible data sources, and early results if available) prior to the advancement to candidacy. The goal of this seminar is to allow for input from faculty and students that might improve the student's research program. Each student must also present a second seminar covering the results of the dissertation research prior to the dissertation defense. Both seminars must be scheduled through the chair of the Seminar/Communications Committee and require a two week notice. As part of this training, students are also required to prepare, under the supervision of their major professors, manuscripts for publication based on their dissertation research.

A summary of requirements for completing the Ph.D. is listed below. A checklist of the administrative steps and deadlines pertaining to the Ph.D. degree is also provided.

## **Examinations for the Ph.D.**

### ***Written Comprehensive Qualifying Examinations***

*Econometrics Examination.* This examination must be taken at the earliest opportunity following satisfactory completion (C or better) in STAT 6510/ECON 8070 and ECON 8080 or equivalent.

*Microeconomics Examination.* This examination must be taken at the earliest opportunity following satisfactory completion (C or better) of ECON 8010 and ECON 8020 or equivalent.

A departmental examining committee for each of the examinations will develop an examination to test the minimum level of competence required for Ph.D. students in Agricultural and Applied Economics. The committees will each be composed of three members appointed by the department chair. Terms of members will be three years with one of the members being appointed in alternate years. Consecutive terms of tenure are allowed.

The grading system employed by the departmental examining committees will encompass grades of fail, marginal fail, marginal pass, and pass. Committees will present a copy of the student's written examination and grade to the student's major professor and will present the student's original written examination and grade to the graduate coordinator within two weeks after the student has completed the examination. A student must pass the two written examinations within one year of entering the Ph.D. program or obtain a waiver from the Department Graduate Committee. Waivers may be granted for part-time students or students beginning the Ph.D. program in the spring semester. In such cases, the student may not have completed enough coursework by the end of the spring semester to be eligible to take one or both of the examinations.

The econometrics and microeconomics examinations will be offered one week apart after the spring semester has concluded and will be completed before the end of the second week in June. If necessary, the examinations will be offered again for retakes, one week apart, so as to be completed prior to the beginning of the ensuing Fall semester.

### ***Dissertation Prospectus***

Students will not be admitted to candidacy until they have an approved dissertation prospectus. A dissertation prospectus seminar should be presented to the department prior to official approval of the prospectus/oral comp exam by the Advisory Committee. The seminar must be scheduled with the chair of the Seminar/Communications Committee with a two week notice.

### ***Oral Comprehensive Qualifying Examination***

The purpose of the oral examination is to test the student's knowledge and ability to apply this knowledge in the areas of general economic theory, quantitative methods, and the student's chosen emphasis of specialization. The exam will be administered shortly after completion of all written examinations. In the case of sub-marginal performance on any written examinations, or parts thereof, the student's advisory committee should examine the candidate in greater depth in that area. Passing the oral examination will be based on the combined performance of both the written and oral examinations. Notification of the oral comprehensive examination must be sent to the Graduate School (through the graduate program administrator) two weeks prior to the examination. The student must have an approved final program of study on file with the department and the Graduate School two weeks prior to the Graduate School's notification of the oral exam (or four weeks before the exam).

In the event of unsatisfactory performance in the oral examination, the student's Advisory Committee may require remedial work possibly in the form of research papers or coursework. After completing the prescribed remedial work, the student's Advisory Committee may schedule one oral re-examination. The final decision on this examination will be made by a vote of the student's Advisory Committee.

### ***Admission to Candidacy***

Application of admission to candidacy is a certification by the student's department that the student has demonstrated ability to do acceptable doctoral work in the chosen field of study and that:



- a. All prerequisites set as a condition to admission into the program have been satisfactorily completed
- b. Research skill requirements have been met
- c. The final program of study has been approved by the advisory committee, the graduate coordinator, and the dean of the Graduate School
- d. A GPA of 3.0 (B) has been maintained on all graduate courses taken and completed courses are listed on the program of study (no course with a grade below C may be placed on the final program of study)
- e. Written and oral comprehensive examinations have been passed and reported to the Graduate School
- f. The advisory committee, including any necessary changes in the membership, is confirmed and all its members have been notified of their appointment
- g. A dissertation prospectus has been approved
- h. The residence requirement has been met.

After admission to candidacy, a student must register for a combined total of ten hours of dissertation or other appropriate graduate credit during the completion of the degree program. Students planning to graduate the same semester they enter candidacy must be admitted to candidacy by the published deadline for candidacy during that semester and register for ten hours. A student must register for a minimum of three hours of credit in any semester when using university facilities, and/or faculty or staff time.

### ***Final Oral Examination/Defense***

The final oral examination/defense should be limited to not more than three hours in total length. In the event of a failure, the student's advisory committee has the option of scheduling one re-examination. The student must notify the Graduate School (through the graduate program administrator) two weeks prior to the final oral examination/defense.

***Sample Ph.D. Curriculum***

## First year

## Fall semester

ECON 8000 Mathematical Analysis for Economists	3 hours
ECON 8010 Microeconomics Theory I	4 hours
ECON 8070 Statistics for Econometrics or STAT 6510 Mathematical Statistics I	3 hours
AAEC 9000 Research	7 hours
AAEC 8010 Seminar	1 hour

## Spring semester

ECON 8020 Microeconomics Theory II	3 hours
ECON 8080 Introduction to Econometrics	3 hours
AAEC 8010 Seminar	1 hour
AAEC emphasis course or elective	3 hours
AAEC 9000 Research	8 hours

Econometric and microeconomic theory written comprehensive qualifying examinations

## Summer semester

Elective and/or research hours	3-6 hours
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Econometric and microeconomic theory re-examinations (if necessary)

## Second year

## Fall semester

ECON 8030 Microeconomic Theory III	3 hours
ECON 8040 Macroeconomic Theory I	3 hours
AAEC 8800 Dynamic Optimization in Agricultural and Resource Economics or ECON 8110, ECON 8120, or ECON 8130	3 hours
AAEC 8010 Seminar	1 hour
AAEC 9000 Research	8 hours

## Spring Semester

AAEC 8850 Risk and Uncertainty in Agricultural Decision Making or ECON 8110, ECON 8120, or ECON 8130	3 hours
AAEC Emphasis Course	3 hours
ECON 8120 Econometrics II or elective	3 hours
AAEC 8010 Seminar	1 hour
AAEC 9000 Research	8 hours

## Summer Semester

Elective and/or research hours	3-6 hours
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Dissertation prospectus seminar and oral comprehensive qualifying examination.

*Advanced to candidacy*

## Third Year

## Fall Semester

AAEC emphasis course

3 hours

ECON 8110, ECON 8120, or ECON 8130 and/or electives

6 hours


AAEC 9000 Research

9 hours

Remaining terms devoted to completing the dissertation.

### ***Check List for Ph.D. Degree***

*Check the Graduate School website for all deadlines. Forms must be submitted by deadline dates. Meeting deadlines are entirely the student's responsibility and students will not be informed or reminded of these deadlines.*

1. \_\_\_\_\_ Submit to the Graduate School the completed [Advisory Committee for Doctoral Candidates form](#) before finals week of the Spring semester prior to taking the written qualifying exams.
2. \_\_\_\_\_ Econometrics and microeconomics written comprehensive qualifying examinations passed within the first year.
3. \_\_\_\_\_ Submit to the Graduate School the completed [Final Doctoral Program of Study form](#) prior to taking the oral comprehensive qualifying examination.
4. \_\_\_\_\_ Notify Graduate School, through the graduate program administrator, of time and place of oral comprehensive qualifying examination at least two weeks prior to the examination. Notify the chair of the Seminar/Communications Committee two weeks prior to the dissertation prospectus seminar.
5. \_\_\_\_\_ Dissertation prospectus seminar.
6. \_\_\_\_\_ Oral comprehensive qualifying examination.
7. \_\_\_\_\_ Approval of dissertation prospectus by advisory committee.
8. \_\_\_\_\_ Submit to the Graduate School the completed *Report of the Written and Oral Comprehensive Examinations* form. This form will be provided by the Graduate School through the graduate program administrator. Additionally, submit to the Graduate School the completed [Application for Admission to Candidacy for Doctoral Degrees form](#) (should be attached to Report). (It should be submitted to the Graduate School by the [deadline posted on the Graduate School website](#) ONLY if planning to graduate same semester.)
9. \_\_\_\_\_ Submit to the Graduate School (through [Athena](#)) the completed *Application for Graduation* form by the [deadline posted on the Graduate School website](#).
10. \_\_\_\_\_ Submit dissertation to advisory committee at least three weeks before proposed date of graduation.
11. \_\_\_\_\_ Electronically submit to the Graduate School the dissertation for a format check at least two weeks before the end of the graduation semester by the [deadline posted on the Graduate School website](#).
12. \_\_\_\_\_ Notify Graduate School, through the graduate program administrator, of time and place of dissertation defense at least two weeks prior to the examination. Notify the chair of the Communications Committee two weeks prior to the dissertation seminar.
13. \_\_\_\_\_ Dissertation seminar.
14. \_\_\_\_\_ Final oral and dissertation defense.
15. \_\_\_\_\_ Submit to the Graduate School the [completed Electronic Thesis and Dissertation \(ETD\) Submission Approval form](#) by the [deadline posted on the Graduate School website](#).
16. \_\_\_\_\_ Submit to the graduate program administrator a computer file containing the dissertation, data (unless protected by confidentiality), and programs, and obtain a completed *Reference Room Clearance* form.
17. \_\_\_\_\_ Submit to the graduate coordinator the completed *Reference Room Clearance form* (available from graduate program administrator).
18. \_\_\_\_\_ Submit to the graduate coordinator the completed *Article Preparation* form  [Article Preparation Release Form.pdf](#) signed by your committee chair.
19. \_\_\_\_\_ Submit to the Graduate School the completed [Approval Form for Doctoral Dissertation and Final Oral Examination form](#). The graduate coordinator will not sign this form until the *Reference Room Clearance* form and the *Article Prep* form have been completed.
20. \_\_\_\_\_ Complete exit survey and interview with department head.
21. \_\_\_\_\_ Return office key to graduate program administrator.