A GUIDE

FOR GRADUATE STUDENTS
IN ECONOMICS

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Website
https://coss.fsu.edu/economics/

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Note

This guide reviews departmental requirements and policies at the time of its publication. While reasonable efforts are made to maintain its currency, it may not reflect late developments in the graduate programs. Furthermore, because of differences in the scheduled revision dates applicable to this guide and to the University Bulletin, some content discrepancies may exist between the two. Students should consult with the Director of Graduate Studies for an explanation of requirements, and to ensure an accurate interpretation of the requirements.

Persons with Disabilities

The Florida State University adheres to Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 (ADA) in prohibiting discrimination against any qualified person with a disability. Any student with a disability may voluntarily self-report the nature of the disability and identify needed special assistance to the Student Disability Resource Center, 1st Floor, Kellum Hall (850-644-9566). This document is available in alternative format.
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1. THE GRADUATE COMMITTEE

The graduate program is supervised by the Graduate Committee, which consists of five tenured or tenure-track faculty members chaired by the Director of Graduate Studies. In addition, the Director of the Master of Science in Applied Economics is an ex-officio, non-voting member. This committee interprets departmental requirements as they relate to individual student cases and rules on petitions by students regarding any such requirements. All decisions, however, are subject to approval by the Department Chair. The Director of Graduate Studies serves as adviser to the graduate students.

2. THE MASTER OF SCIENCE PROGRAM

2.1. Overview

There are two ways to earn a Master’s degree in Economics at FSU. The first is to complete the requirements for the Applied M.S. program, including either a thesis or an applied project (options 1 and 2 below). The Applied Master’s program is discussed in the next section. The second way is to complete the first one and half years of the Ph.D. program. The requirements for this Master’s degree are discussed in section 2.3 below.

2.2. The Applied M.S. Degree

The Applied M.S. program at FSU is designed so that it is a self-contained program giving the successful student valuable skills as an applied economist. Graduates with such skills are in demand by both the public and private sectors. This is intended to be terminal degree and not preparation for entry into a doctoral program.

To satisfy the requirements for the Applied Master’s degree a student must complete the four core courses, an additional two or three elective courses (depending on whether the thesis or applied project option is chosen), and the thesis or applied project itself. The elective courses should be graduate economics courses. Students may substitute graduate courses offered by other departments, provided that they can demonstrate the relevance of the coursework to their program of study, and provided they obtain prior approval from the Director of the Master's Program. The program can be completed in a calendar year if the student takes a course load of 10 hours in the fall, 11 hours in the spring and 9 hours in the summer.

Required Courses There are four required courses (12 semester hours) for the Applied M.S. degree; two each in microeconomics, and econometrics. These four core courses must be completed with a minimum GPA of 3.0. In the event that a student must retake one or more of these courses in order to satisfy the core GPA requirement, the department will use the higher of the grades earned in the two attempts when making its GPA calculations. Note, however, that both grades will appear on the student's transcript, and that the university follows different procedures when calculating its aggregate GPA. Consult the graduate bulletin for details. The typical schedule is:

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester</th>
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<tbody>
<tr>
<td>Applied Microeconomics I</td>
<td>Fall</td>
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<tr>
<td>Applied Econometrics</td>
<td></td>
</tr>
<tr>
<td>ECO 5114</td>
<td>Fall</td>
</tr>
<tr>
<td>ECO 5420</td>
<td></td>
</tr>
<tr>
<td>Applied Microeconomics II</td>
<td>Spring</td>
</tr>
<tr>
<td>ECO 5117</td>
<td></td>
</tr>
<tr>
<td>Analysis of Economic Data</td>
<td></td>
</tr>
<tr>
<td>ECO 5434</td>
<td></td>
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</tbody>
</table>

Students with a sufficient background in econometrics and statistics may substitute the doctoral core sequence in econometrics (ECO 5416 and 5423) for the M.S. Sequence with the prior approval of the Graduate Director.

Complementary Courses and Research This component of the program can be satisfied in one of two ways:

Option 1: The student completes at least 12 hours of graduate-level course work beyond the required courses and in addition writes a thesis, for which at least 6 hours of ECO 5971 credit are granted. The thesis committee consists of a major supervisory professor and two other members of the Economics department (or, if appropriate, one other department member and one “outside” professor), subject to the approval of the Director of the Master's program. An oral defense of the thesis is required (ECO 8976), where all members of the Economics department are invited to attend. Option 1 requires a minimum of 30 semester hours of graduate credit, including the required courses.
Option 2: The student completes at least 12 hours of graduate-level course work beyond the required courses, and in addition completes an applied project for which 6 hours of ECO 5973 credit are granted. The course work typically involves 2 electives (9 hours) and 2 semesters of professional development seminar (2 hours). Completion of the applied project involves registration and attendance for ECO 5973 during the first and second summer semesters. During this sequence, the student will select, write, and present an applied project. Option 2 requires a minimum of 30 semester hours of graduate credit, including the required courses.

2.3. The (traditional) M.S. Degree

The (traditional) M.S. Degree is typically chosen by current doctoral students in Economics at FSU, or by students that plan to enter a doctoral program at some point in the future. The thesis and applied project options are not available with this degree.

The requirements of the traditional M.S. Degree are: a) completion of the core courses in microeconomics (ECO 5115 and 5116), macroeconomics (ECO 5204 and 5207), and econometrics (ECO 5416 and 5423) with a minimum GPA of 3.0, b) completion of mathematical methods (ECO5405) plus at least 9 additional credit hours of elective coursework. The elective courses require prior approval from the Director of Graduate Studies. Supervised research (ECO 5914), supervised teaching (ECO 5940), and workshops do not count toward the required elective hours.

The seven core courses listed above must be completed with a minimum GPA of 3.0. In the event that a student must retake one or more of these courses in order to satisfy the core GPA requirement, the department will use the higher of the grades earned in the two attempts when making its GPA calculations. Note, however, that both grades will appear on the student's transcript, and that the university will follow different procedures when calculating its aggregate GPA. Consult the graduate bulletin for details.

Students pursuing a dual degree program that requires one or more of the core doctoral courses will need to complete all requirements for the traditional MS degree, but must also work out a plan with the Director of Graduate Studies that ensures at least 30 acceptable credit hours that do not overlap with the second program.

2.4. Normal Progress

To maintain normal progress, a student must maintain an aggregate 3.0 GPA and complete all degree requirements within four semesters of first enrolling.

2.5 Graduation

Graduation is not automatic; students must apply to the Registrar for graduation during the first two weeks of the semester they expect to graduate.

2.6. Time Limit

All work for the Master's degree must be completed within seven years from the time that a student first registers for graduate credit.

2.7. Transfer Credit

Transfer of courses not counted toward a previous degree from another regionally accredited graduate school is limited to 6 semester hours and transfer of courses not counted toward a previous degree within Florida State University is limited to 12 semester hours, except when the departmental course requirement exceeds the 30 hour University-wide minimum requirement. In the latter case, additional transfer credit may be allowed to the extent of the additional required hours. In all cases, the majority of credit must be earned through Florida State University or its official consortia institutions. All transfer credit must: 1) be recommended by the major department; 2) be evaluated as graduate work by the evaluation section of the Office of Admissions of Florida State University; and 3) have been completed with grades of 3.0 (“B”) or better.

Grades earned at another institution cannot be used to improve a grade point average or eliminate a quality point deficiency at Florida State University.

The University does not accept experiential learning, or award credit for experiential learning. Transfer credit based on experiential learning from another institution will not be accepted.
3. THE DOCTOR OF PHILOSOPHY PROGRAM

3.1. Overview

The Ph.D. program at FSU prepares the student for academic and other professional careers by training students to do advanced research in economics.

The Ph.D. program consists of six parts:
1. Instruction in
   a. core micro and macro theory,
   b. fundamental econometric methods,
   c. two fields of specialization,
   d. elective areas in economics or in related disciplines approved by the Graduate Committee;
2. Written core examinations in micro and macro theory;
3. Participation in a departmental doctoral workshop each semester beginning in the second year;
4. An oral defense of a second/third year paper;
5. An oral defense of the dissertation prospectus;

3.2. Core Courses in Economic Theory

Extensive training in the core areas of economics is essential to professional development. The core requirements consist of: two courses in microeconomics (ECO 5115 and 5116) and two courses in macroeconomics (ECO 5204 and 5207), one course in mathematical economics (ECO 5405), three courses in econometrics (ECO 5416 and ECO 5423, plus one of the applied econometrics field courses - see section 4.2), and a research methods course (ECO5932) offered on an S-U basis only. Some of these course requirements may be waived, at the discretion of the Graduate Committee, for students with an appropriate level of prior graduate work. Note that any waiver granted will not change the total credit hour requirements for coursework.

3.3. Fields of Specialization

Students will select both a major and minor field of specialization. To satisfy the field requirements, a student must complete at least two courses (per field), from the field groupings listed in Section 4.2, with a minimum GPA of 3.75 in the major field and 3.5 in the minor field. No single course may count for more than one field. A student who completes the course requirements without satisfying the GPA requirement may request a field exam as an alternative method of satisfying the field requirement. Procedures for any such exam will conform to the standards established in Section 3.6 below. One field of specialization (but not both) may be drawn from outside the Department, subject to approval in advance by the Graduate Committee and the host department.

3.4. Workshops

The Department runs multiple workshops each semester in which advanced research topics are critically reviewed. Participants in these workshops attend seminar sessions, prepare formal discussion comments, and present ongoing research. Workshops typically meet six to ten times per semester. Generally, the presenters are visiting speakers, faculty members, or Ph.D. students presenting their research.

Participation in at least one workshop every semester, beginning in the second year, is a requirement of the Ph.D. program. Workshops carry the course number ECO 6938 and are generally taken for zero credit hours. Workshops are typically graded on an S-U (Satisfactory- Unsatisfactory) basis, with the conditions for a satisfactory grade determined by the supervising faculty.
3.5. Electives and Total Nonthesis Hours

A Ph.D. student must complete at least 54 semester hours of graduate-level coursework. This includes the 9 courses in the Ph.D. core (24 hours), and at least 4 additional field courses (a minimum of 12 hours). The remaining hours are elective. To count toward the 54 hours, an elective course must be approved by the Director of Graduate Studies in advance. Elective courses outside the economics department (with prefixes other than ECO, ECS, or ECP) require the prior approval of the Graduate Director. Elective courses outside the economics department may be taken on an S-U basis, again with the approval of the Graduate Director, but additional restrictions do apply per University guidelines (see Section 6.1). No more than six hours of Directed Individual Study (DIS) or Graduate tutorial course work may count toward the 54 hour requirement.

Supervised research, supervised teaching, and workshops (ECO 5914, ECO 5940, and ECO 6938) do not count toward the required 54 semester hours. Likewise, dissertation credits (ECO 6980) and preliminary preparation hours (ECO 6960) do not count toward satisfying this requirement. A maximum of 6 semester hours of transfer credit for graduate coursework from an accredited institution, in the field of economics or a complementary discipline, may be counted toward the 54 hour minimum, with the approval of the Director of Graduate Studies.

Full-time students can expect to complete this course work in five academic semesters.

3.6. Doctoral Core Examinations

The core examinations consist of two separate tests; one each in the micro and macro core areas. There are no core exams in econometrics. However, questions related to quantitative methods may appear on the micro and macro core exams, as these topics have some relevance to the course work in these areas. The micro and macro core exams are each four hours in length.

Eligibility. To be eligible to sit for the core exams in micro and macro, a student must have completed the first-year courses in micro and macro (ECO5115, ECO5116, ECO5204, ECO5207).

Frequency. Core examinations are offered twice a year: in May and August. Students must take both exams in May of the first year, approximately 9 months after entering the program. If a student fails one or both exams, a retake of the failed component is required following August. Students are only allowed one retake. A student who elects not to take the exam in May forgoes the opportunity for a retake, and must pass the exam on the first attempt following August. Exceptions to these policies will only be granted under extreme circumstances, and must be approved by the graduate committee.

Committees and Grading. The core exams are written by a committee consisting of at least three faculty members with expertise in the area to be tested. Several questions are submitted by each committee member, although other professors may offer questions for consideration. Final selection of questions is made by the examining committee.

Every attempt is made to keep the grading process anonymous. Student names do not appear on answer sheets. Rather, their responses are identified by a code number they select. These code numbers are kept by the program administrator, and are not to be revealed to the examination committee until after grades have been reported to the Director of Graduate Studies.

Each committee member must review the responses to each exam question and for each student. The committee then assigns a grade of high pass, pass, low pass, or fail, to each exam. The results must generally be reported to the Director of Graduate Studies within three weeks of the examination date. Test results may be conveyed to the students only by the Director of Graduate Studies.

3.7. The Third Year Paper

Students are required to write a paper during the third year of the program. The purpose is to gain experience in formulating research questions and conducting research to prepare for a dissertation. Students must have two faculty members approve a research proposal no later than the final day of the spring semester of the second year. These faculty members will serve as mentors for the 3rd year paper. The student is responsible for notifying the Director of Graduate Studies that the faculty members have approved the proposal by submitting an internal form signed by the faculty mentors—failure to comply results in an unsatisfactory annual evaluation for the student.

Students will present their research paper at one of the department workshops/seminars no later than the final day of the fall semester of the third year (in most years, this will be a combined workshop). The paper is approved or denied by a simple majority vote of a three-person committee comprised of the following (1) the two tenured or tenure-track faculty members who serve as
mentors for the 3rd year paper and (2) a member of the Graduate Studies Committee to be determined by the Director of Graduate Studies. If the committee denies the paper, it must be revised, presented again, and approved no later than the final day of the spring semester of the third year—failure to comply results in an unsatisfactory annual evaluation for the student.

3.8. The Dissertation

Ph.D. Candidacy A student is formally admitted to PhD candidacy after passing both core exams, successfully defending the second/third year paper and a dissertation prospectus. Students should register for ECO 8969 in the semester in which they plan to defend the dissertation prospectus. Registration for dissertation credit (ECO 6980) cannot occur until the term in which the student is admitted to candidacy. After completion of the admission to candidacy process, the student may retroactively add dissertation hours (or convert ECO 6960 Preliminary Preparation hours to Dissertation hours) for that semester in which the student was admitted to candidacy. Retroactive changes are only permitted if the admission to candidacy process is completed by the end of the seventh week of the semester.

Dissertation Committee. Students are encouraged to begin dissertation development early in their graduate careers. They should discuss with faculty members topics, the composition of a dissertation committee, and the committee chairperson (dissertation director). Upon selection of a preferred topic and methodology, the student writes a detailed outline to show to prospective committee members.

All doctoral committees appointed after August 24, 2009, must meet the minimum university standard of four members with Graduate Faculty Status (GFS). Included among these four members will be the University Representative who must also be a tenured member of the faculty from outside Economics. Non-tenured tenure track faculty from outside the degree program, department or college and holding GFS are eligible to serve as one of the four members, but they cannot serve as the University Representative. Non-tenure-track faculty holding Co-DDS or Co-MDS are eligible to serve as additional members of the committee (beyond the minimum of four) and those with Co-DDS can serve as a co-advisor (Graduate Bulletin - https://registrar.fsu.edu/bulletin/graduate/information/graduate_degree/).

The Prospectus. The student must provide a written description of the proposed dissertation and defend it at a meeting of the full dissertation committee. This meeting is intended to enable the student and committee members to gain a clearer view of the project's objectives, techniques, and rigor. The dissertation committee chair will report the results of the prospectus defense to the Director of Graduate Studies, and a copy of this notice will be kept in the student's file in the Department office. Normally, the prospectus is also presented at the appropriate department workshop.

If a student fails the preliminary examination before being admitted to candidacy, a re-examination may be offered by the student’s supervisory committee or other relevant decision making body within each department or unit, per that department or unit’s doctoral student handbook. The Academic Dean’s office should be notified of the outcome of any preliminary exam attempt.

Students can take the preliminary examination for admission to candidacy only two times. A second failure on the preliminary exam makes the student ineligible to continue in the degree program. The second attempt at the preliminary exam shall occur no sooner than six full class weeks after the results of the first attempt are shared with the student. For the purpose of this policy, a “full class week” is defined as a week with five days during which classes are held at FSU. Students must be registered separately for their first and second attempt, if necessary, within the same semester, and must receive either a “pass” or a “fail” grade for each attempt.

An exception request regarding the timing of the re-examination can be submitted for consideration to the Academic Dean’s office by either the student or the supervisory committee. Students who allege that academic regulations and/or procedures were improperly applied for the re-examination of their preliminary exam may have their grievances addressed through the general academic appeals process.

Credit Hours. An individual must complete at least 24 semester hours of dissertation credit (ECO 6980) although the total number of credits carried should be commensurate with the time a student and the faculty devote to the project. Once admitted to candidacy, the student is expected to register for at least 2 dissertation hours per semester.

Dissertation Evaluation. Throughout the development of the dissertation, a student should have close contact with all committee members. Periodic full committee meetings to discuss progress and to chart future work are advised, and a number of forms and abstracts must be submitted to the graduate office. Details are available at the Graduate College website.

Copies of the complete dissertation must be circulated to all committee members at least four weeks prior to the oral examination. Each member, as well as The Graduate School, must be notified in writing of the date, time, and place at least two weeks before the defense. Details and forms are available on the Graduate College website. All members of the Department and University are invited to the oral defense. The student should enroll in ECO 8985 for the term in which the defense is scheduled.

University regulations require that all committee members and the student must attend the entire defense in real time, either by being physically present or participating via distance technology. The department abides by university regulations and does not impose any further restrictions. If exceptional emergency circumstances, e.g., medical or other emergency situations, prevent the participation of a committee member then it may be necessary to arrange for an additional appropriately qualified colleague to attend the defense. A minimum of four members with Graduate Faculty Status must participate.

3.10. Residency

According to University rules, a Ph.D. student must maintain residency by registering for a total of 24 credit hours in any period of twelve consecutive months. Summer courses can be counted. The student, however, cannot begin to fulfill residency until completing 30 hours of graduate work or receiving a Master's degree. Dissertation credits provide the most convenient way to earn residency, especially for students holding assistantships.

3.11. Scholarly Engagement

To meet the Scholarly Engagement requirement, doctoral students should interact with faculty and peers in ways that may include enrolling in courses; attending seminars, symposia, and conferences; engaging in collaborative study and research beyond the university campus; and utilizing the library, laboratories, and other facilities provided by the university. The goal is to prepare students to be scholars who can independently acquire, evaluate, and extend knowledge, as well as develop themselves as effective communicators and disseminators of knowledge. The purpose of the Scholarly Engagement requirement is to ensure that doctoral students are active participants in the scholarly community. Each academic unit with a doctoral program should include a program specific statement in its Graduate Handbook describing how its students can meet the Scholarly Engagement requirement. Registration for at any of the departmental seminars or workshops satisfy this requirement.

3.12. Normal Progress

Normal progress requires that the core examinations be completed no later than the Spring semester of the student's second academic year in the program. In accordance with University regulations, each graduate student in the Ph.D. program must cooperate in a written evaluation of progress annually, late in the Spring term. Two "unsatisfactory" progress evaluations will result in the student's being terminated from the program.

3.13. Graduation

Graduation is not automatic; students must apply to the Registrar for graduation during the first two weeks of the semester they expect to graduate.

3.14. Time Limit

The expected time frame is defense of the prospectus sometime during the third year with completion of all degree requirements within six years. More formally, the Graduate School requires that the dissertation be defended within five calendar years of being admitted to candidacy. Application for an extension is quite involved and requires the approval of The Graduate School. The necessary paperwork may be found on Graduate College website. Failure to meet this deadline or get an extension means that the core exams must be retaken and passed for a student to continue in the program.

Under special circumstances, graduate students may apply for a leave of absence from the university for a specific period of up to three consecutive semesters (includes summer term). The circumstances justifying a leave include, but are not limited to: personal or family medical conditions, call to active military duty, parental leave, death in immediate family, or completion of an off-campus internship. The student must provide appropriate documentation and a rationale for the leave request. To apply for a leave of absence, a student must complete the Request for Leave of Absence Form (available on the Graduate School website) and submit it together with appropriate documentation to the major professor/advisor/Program Director. If the major professor/advisor/Program Director approves the application, it should then be forwarded to the department chairperson and subsequently to the college dean for consideration. If approved at all of these levels, the college dean should notify the Registrar and the Dean of the Graduate School of the decision. The college dean should also notify the student of the decision (approved or
denied). The Registrar will place a notation on the student’s record. A student who is denied a request for leave at any step may appeal the decision to the Dean of The Graduate School.

3.15. **Transfer Credit**

Transfer of courses not counted toward a previous degree from another regionally accredited graduate school is limited to 6 semester hours and transfer of courses not counted toward a previous degree within Florida State University is limited to 12 semester hours, except when the departmental course requirement exceeds the 32 hour University-wide minimum requirement. In the latter case, additional transfer credit may be allowed to the extent of the additional required hours. In all cases, the majority of credit must be earned through Florida State University or its official consortial institutions. All transfer credit must: 1) be recommended by the major department; 2) be evaluated as graduate work by the evaluation section of the Office of Admissions of Florida State University; and 3) have been completed with grades of 3.0 (“B”) or better.

Grades earned at another institution cannot be used to improve a grade point average or eliminate a quality point deficiency at Florida State University.

The University does not accept experiential learning, or award credit for experiential learning. Transfer credit based on experiential learning from another institution will not be accepted.

### 4. GRADUATE COURSES

An “r” following a course number marks a course which may be repeated for credit. Required courses in the core areas are offered each year; courses for some specialized **fields** are offered only in alternate years or on demand.

#### 4.1. **Core Curriculum**

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<thead>
<tr>
<th>Applied MS Micro Core</th>
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<tbody>
<tr>
<td>ECO 5114</td>
<td>Applied Microeconomics 1</td>
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<tr>
<td>ECO 5117</td>
<td>Applied Microeconomics 2</td>
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<th>Applied MS Econometrics</th>
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<td>ECO 5420</td>
<td>Applied Econometrics</td>
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<tr>
<td>ECO 5434</td>
<td>Analysis of Economic Data</td>
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<td>Macroeconomic Theory I</td>
</tr>
<tr>
<td>ECO 5207</td>
<td>Macroeconomic Theory II</td>
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<tbody>
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<td>ECO 5115</td>
<td>Product Markets and the Theory of the Firm</td>
</tr>
<tr>
<td>ECO 5116</td>
<td>Imperfect Competition, Factor Markets, and Income Distribution</td>
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<td>Econometrics I</td>
</tr>
<tr>
<td>ECO 5423</td>
<td>Econometrics II</td>
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<tr>
<td>plus one of the Applied Econometrics field courses below</td>
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<tbody>
<tr>
<td>ECO 5932</td>
<td>Introduction to Research</td>
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</table>
4.2. Fields of Specialization

Note: Courses marked with an asterisk (*) are required for the field. Only one course marked with two asterisks (**) may count towards the completion of a single field.

Applied Econometrics
ECO 5424  Econometric Methods for Panel Data
ECO 5427  Limited Dependent Variable Models
ECO 5428  Times Series Analysis
ECO 5454  Empirical Methods in Applied Economics

Experimental and Behavioral Economics
ECO 5133  Markets and Auctions
ECO 5453*  Advanced Experimental Economics
ECO 5506  Public Goods
ECO 6176  Topics in Behavioral Economics
ECO 6105  Personnel Economics
POS 5698  Behavioral Game Theory

Macroeconomics and Monetary Policy
ECO 5209  Topics in Macroeconomics
ECO 5295**  Macroeconomic Theory III
ECO 5408**  Computational Economics
ECO 6209  Topics in Macroeconomics
ECO 6216  Monetary Theory and Policy
ECO 6296  Open Economy Macroeconomics

Industrial Organization and Regulation
ECP 5405  Industrial Organization
ECP 5415  Social Control of Business
ECP 5456  Law and Economics

Labor
ECP 5205  Labor Markets
ECP 6105  Personnel Economics
ECP 6209  Labor Policy and Analysis
ECO 5454  Empirical Methods in Applied Economics

Law and Economics
ECO 5454*  Empirical Methods in Applied Economics
ECP 5415  Social Control of Business
ECP 5456  Law and Economics

Population Economics
ECP 5115  Seminar in the Economics of Population
ECP 5116  Applied Economic Demography
ECP 5117  Mathematical Demography
ECS 5015  Economic Development: Theory and Problems

Public Economics
ECO 5505  Public Economics
ECO 5506  Public Goods
ECO 5533  Public Choice
ECO 5454  Empirical Methods in Applied Economics

Urban Economics
4.3. Fields of Specialization Outside the Department

A doctoral student may elect to pursue one field of specialization outside the Department. That field, however, should be related to economics and should complement the training received through the Department. An outside field typically consists of at least two graduate courses approved in advance by the Graduate Committee and the host department. Standards for successful completion of the field are established by the host department in consultation with the Director of Graduate Studies in Economics.

4.4. Non-Field Ph.D. Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 5303</td>
<td>History of Economic Thought</td>
</tr>
<tr>
<td>ECO 5281</td>
<td>Financial Economics I</td>
</tr>
<tr>
<td>ECO 5282</td>
<td>Financial Economics II</td>
</tr>
<tr>
<td>ECO 5716</td>
<td>Theory and Policy of International Finance</td>
</tr>
</tbody>
</table>

4.5. Housekeeping Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 5906r</td>
<td>Directed Individual Study (S/U grade)</td>
</tr>
<tr>
<td>ECO 5907r</td>
<td>Directed Individual Study (letter grade)</td>
</tr>
<tr>
<td>ECO 5914r</td>
<td>Supervised Research</td>
</tr>
<tr>
<td>ECO 5932r</td>
<td>Graduate Tutorial</td>
</tr>
<tr>
<td>ECO 5940r</td>
<td>Supervised Teaching</td>
</tr>
<tr>
<td>ECO 5971r</td>
<td>Master's Thesis</td>
</tr>
<tr>
<td>ECO 5972</td>
<td>Extended Master's Paper</td>
</tr>
<tr>
<td>ECO 6938r</td>
<td>Doctoral Workshop</td>
</tr>
<tr>
<td>ECO 6939r</td>
<td>Teaching Workshop</td>
</tr>
<tr>
<td>ECO 6960r</td>
<td>Preliminary Examination Preparation</td>
</tr>
<tr>
<td>ECO 8976</td>
<td>Master's Thesis Defense</td>
</tr>
<tr>
<td>ECO 8969</td>
<td>Preliminary Doctoral Examination</td>
</tr>
<tr>
<td>ECO 8985</td>
<td>Dissertation Defense</td>
</tr>
</tbody>
</table>

4.6. Background and Service Courses

Of the courses listed below, all but ECO 5005 and ECP 5705 are given in conjunction with undergraduate courses, and consist of both graduate and undergraduate students, the latter often comprising the majority. These courses have rigor lower than that customary for the graduate program and are intended primarily for non-majors or for majors who need to fill omissions in their undergraduate training. Economics graduate students may not register for them. Credit earned in these courses normally cannot be applied to either the Master's and Ph.D. credit hour requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 5005</td>
<td>Economics for International Affairs</td>
</tr>
<tr>
<td>ECO 5206</td>
<td>Macroeconomic Theory, Practice and Policy</td>
</tr>
<tr>
<td>ECO 5208</td>
<td>Global Macroeconomics</td>
</tr>
<tr>
<td>ECO 5111</td>
<td>Intermediate Microeconomic Theory</td>
</tr>
<tr>
<td>ECO 5205</td>
<td>Money and National Income Determination</td>
</tr>
<tr>
<td>ECO 5403</td>
<td>Static Optimization</td>
</tr>
<tr>
<td>ECO 5413</td>
<td>Introduction to Econometrics</td>
</tr>
<tr>
<td>ECO 5707</td>
<td>International Trade</td>
</tr>
<tr>
<td>ECO 5715</td>
<td>International Finance</td>
</tr>
<tr>
<td>ECP 5536</td>
<td>Economics of Health</td>
</tr>
<tr>
<td>ECP 5538</td>
<td>Health Policy Statistics</td>
</tr>
<tr>
<td>ECP 5705</td>
<td>Economic Concepts for Business Decisions</td>
</tr>
</tbody>
</table>
4.7. **Workshops**

The Department has two workshop course numbers. ECO 6938r, Doctoral Workshop, is usually offered each regular semester with numerous sections; including both the regular economics department and DeVoe-Moore seminar series, Quantitative Methods, Experimental Economics, and Macro Theory. ECO 6939r, Teaching Workshop, is usually offered in the Spring semester; successful completion of ECO 6939 is a required prerequisite for appointment as a teaching assistant (instructor) with full responsibility for a section of principles. ECO 6939 does not count as one of the workshops required for the Ph.D., but must be taken in the spring semester of the second year by all students on assistantship or fellowship.

5. **SAMPLE SCHEDULE FOR DOCTORAL STUDENTS**

A typical course work schedule for the first two years of the Ph.D. Program is:

**Fall Semester (First Year)**  
ECO5405 (Math Econ), ECO5204 (Macro 1), ECO5115 (Micro 1), ECO5416 (Econometrics 1)

**Spring Semester (First Year)**  
ECO5207 (Macro 2), ECO5116 (Micro 2), ECO5423 (Econometrics 2), ECO5932 (Research Methods)

**Fall Semester (Second Year)**  
3rd Econometrics Class, Elective/Field Courses

**Spring Semester (Second Year)**  
Elective/Field Courses

6. **FURTHER COMMENTS ON COURSES, CREDITS, AND GRADES**

6.1. **Satisfactory- Unsatisfactory Grades**

A maximum of six credit hours of courses for the Master's, and nine hours of courses for the Doctorate, usually carrying letter grades may be taken on the Satisfactory- Unsatisfactory (S-U) grade basis. Courses in Economics which carry letter grades may not be taken for an S-U grade without prior approval of the Graduate Committee. S-U credit does not affect the student's grade point average.

6.2. **Expired Incompletes**

For letter-grade courses a grade of Incomplete which a student allows to expire has the force of an F in calculating the grade point average. The Department takes no actions to remove an expired Incomplete. For S-U courses, an Incomplete lapses to a U and does not affect the grade point average.

6.3. **Directed Individual Study**

The student interested in a special project not covered by courses in the curriculum may register for ECO 5906r (S-U credit), or ECO 5907r (letter grade), Directed Individual Study (DIS). Before registering, the student should clearly formulate a project outline and should consult with and receive the approval of the professor under whom the DIS will be taken. Prior approval must also be obtained from the Director of Graduate Studies. DIS credit may not be used to review topics or material treated in regularly scheduled courses. Sometimes ECO 5932r, Graduate Tutorial, is a more appropriate registration; the Director of Graduate Studies will determine which course should be taken.

6.4. **Applicability of Undergraduate Courses**

Ordinarily, undergraduate courses may not be taken for graduate credit. However, some 4000-level (senior) courses outside the Department, especially those in mathematics and statistics, may be awarded graduate credit under exceptional circumstances. Prior consent of the Graduate Committee (and, usually, the Graduate Dean) is required for a graduate student to receive credit for any 4000-level courses.

6.5. **Academic Standing**
A student working toward the M.S. or the Ph.D. must maintain a 3.0 (B) average in all graduate work. Should the overall average fall below 3.0, the Dean's Office will put the student on academic probation, and if the deficit is not corrected by the end of the next semester of enrollment, the student will be dismissed. The Graduate Committee will review the record of any student on academic probation to determine if continuation in the program is recommended.