

## GUIDE FOR GRADUATE STUDENTS IN ECONOMICS

This guide provides information about the requirements of the Department of Economics graduate program. You should also familiarize yourself with the requirements of the Graduate School which are described in the General Catalog and on the web at [www.grad.washington.edu](http://www.grad.washington.edu). You are responsible for knowing and following the requirements of both the Department and the Graduate School. This guide will be updated periodically.

### I. The MA Program

#### A. Core Courses

The core courses required of all MA students are ECON 500, 501, and 508 (microeconomics); ECON 502 and 503 (macroeconomics); and ECON 580, 581, and 582 (econometrics). MA students must obtain a grade 2.70 or better in each of these core courses. Core courses may be repeated one time to bring up a deficient grade to the required level. The core course requirements must be satisfied within two years of entering the graduate program.

#### B. Electives

In addition to the core courses, MA students must take at least seven elective courses in economics at the 500 level. ECON 509 may be counted as one of the seven electives. These courses must be taken for a numeric grade, not on a credit/no credit basis. At least two must be in the same field of specialization (see Appendix). The available fields of specialization and the courses corresponding to each are listed in the Appendix. Students must earn a grade of at least 2.70 in each of the elective courses. The coursework requirements must be completed by the end of autumn quarter of the third year. Two of the seven elective courses may be chosen from graduate level courses offered by other UW departments, provided that the Graduate Program Coordinator pre-approves them as relevant to the student's program.

#### C. Internship

Each MA student must complete six credit hours of a supervised internship (ECON 601). The goal of this requirement is to ensure that MA students have some practical experience with empirical problems and analysis. The requirement can be satisfied by work in an approved internship program outside the University, by working as a research assistant for a faculty member, or by completing an independent research project under faculty supervision. It is the responsibility of the student to arrange an appropriate program, which must be pre-approved by the Graduate Program Coordinator. In order to receive credit, the student must obtain a letter from the internship supervisor that briefly describes the work that will be performed, and this letter must be submitted to the Graduate Program Coordinator for approval. After the internship is completed, the internship supervisor should send a second letter describing how the student performed during the internship and the quality of the work produced. This letter should be submitted to the Graduate Program Counselor by the end of the quarter in which the internship is completed. Students may register for ECON 601 credits retroactively, *e.g.*, in the autumn quarter students may register for research performed during the preceding summer.

*PhD students can satisfy the requirements for the MA degree by passing the microeconomics and macroeconomics core exams and completing eight elective courses and two fields of specialization; the internship requirement is waived in this case.*

#### **D. Graduate School Requirements**

All University of Washington Graduate School requirements must be satisfied. (Refer to the General Catalog or to the web site [www.grad.washington.edu](http://www.grad.washington.edu).) *The Graduate School requires a cumulative GPA of at least 3.00.*

#### **E. English as a Second Language Requirements**

Students who are required to take English as a Second Language (ESL) courses must take them during their first year and receive credit in each ESL course.

#### **F. Application for Master's Degree**

Students who are completing the requirements for the MA degree apply for the degree on the Graduate School web site (<http://www.grad.washington.edu/mygrad/student.htm>). Check that web site *early* in the quarter the degree is expected to determine the deadline for applying. Approved applications are good for one quarter only. Students must be registered during the quarter in which the degree is expected.

#### **G. Progress Toward the Master's Degree**

Students should be able to complete the MA program in two years. In order to remain in the MA program a student must continue to make progress toward the degree. The following norms have been established as minimally acceptable progress (MAP):

Requirement	MAP Deadline
Pass course work requirements	by the end of autumn quarter of the third year.
Complete approved internship	by the end of the third year.

Most students satisfy these requirements well before the indicated deadline. If a student fails to satisfy one of the requirements for the MA by the MAP deadline, then the student may be placed on academic probation in that quarter. If the requirement is not satisfied by the following quarter, the student may be placed on final probation. Failure to satisfy the requirement within two quarters of the deadline may result in dismissal from the program.

## **II. The PhD Program**

The graduate program in economics leading to the PhD degree consists of one year of core courses followed by core examinations in microeconomics and macroeconomics, one year of electives followed by examinations or course certification in at least two fields of specialization, and successful completion of a dissertation.

### **A. Core Theory and Econometrics Program**

#### **1. Core Courses**

The core program is designed to provide the tools for advanced work in economics. It consists of courses in microeconomics (ECON 500, 501, and 508), macroeconomics (ECON 502, 503 and 509), and econometrics (ECON 580, 581, and 582). These courses may be repeated one time to bring a deficient grade up to the required level. Minimum required grades for microeconomics and macroeconomics core courses are 2.7. For the econometrics core courses, each grade must be at least 2.7, but an average of 3.0

is required for the sequence. Core courses may be repeated one time to bring a deficient grade up to the required level. The Graduate School requires a minimum cumulative GPA of 3.0.

## **2. Core Examinations**

All PhD students are required to pass core examinations in microeconomics and macroeconomics before the beginning of their third year in the program. The core examinations cover basic economic theory at the level of the core courses. Students are not expected to have taken any course work in economic theory beyond the core courses, but they *are* expected to have done reading and other work to extend, integrate, and consolidate their understanding of materials presented in the core courses.

The core examinations are given twice a year, in September prior to the beginning of autumn quarter and in the spring during the week prior to the beginning of spring quarter. The exact dates of the examinations will be announced during the preceding quarter. *All PhD students are required to take both core examinations in September before the beginning of their second year in the graduate program.* The student is responsible for signing up for the examinations with the Graduate Program Counselor. Students who do not pass a core examination must retake it in the spring of their second year in the program. A student may retake each core examination one time. If a student neglects to take a core examination when required, then that automatically results in a failure and counts as one of the two permitted attempts at taking that examination.

### **B. Elective Courses**

In addition to the core courses, PhD students must take at least eight elective courses in economics at the 500 level. These courses must be taken for a numeric grade, not on a credit/no credit basis. A grade of at least 3.0 is required in each course. At least one of the courses must be in advanced microeconomics or advanced macroeconomics. (Students may use this advanced micro or macro course to fulfill a field of specialization requirement as well; see the Appendix for details.) In choosing elective courses, students should take account of the need to satisfy the field requirements described below. Students are strongly urged to take some or all of the advanced econometrics sequence: ECON 583, 584, 585, 586, 587 and 589, because a large majority of PhD dissertations rely on econometric methods. Two of the eight elective courses may be chosen from graduate level courses offered by other UW departments, provided that the Graduate Program Coordinator pre-approves them as relevant to the student's program. The following courses cannot be used to satisfy this elective courses requirement: ECON 537 and ECON 538.

### **C. Fields of Specialization**

PhD students must satisfy the requirements for two fields of specialization. The field requirements can be satisfied either by passing two field examinations, or by passing one field examination and receiving an average grade of at least 3.80 in the courses corresponding to a second field (if more than two courses are taken in a specific field that requires only two, the two highest grades will be used to determine if the student may grade out of the field exam; *please also note in the appendix the different requirements for completion of the finance field*). The eligible fields and the courses corresponding to each are listed in the Appendix. Note that field courses may have prerequisites. Students should consult the relevant faculty members for additional information concerning field requirements. Field exams are typically offered only in September, but they will be offered in January too if needed. Students should be aware that maintaining satisfactory progress requires passing the field exam(s) in September at the end of their second year (see p. 6 below). Students may not register for a field exam unless they have completed all of the courses required for that field of specialization by August 1 before the September exam or by December 1 before the January exam (which means that I or X grades must also be resolved by this date). Students must pass the core examinations before taking any field examinations. It is the student's responsibility to sign up for the field examinations with the Graduate Program Counselor. A student may retake a field examination or a field course one time.

## **D. *Seminar Attendance***

Workshops and seminars are an important part of the training for a PhD. As a minimum requirement, *PhD students beyond the second year must attend at least four departmental seminar presentations and two workshops during each quarter* in which they are registered. When attending seminars, students must write their name on a sign-up sheet which is circulated at each presentation.

## **E. *Interim Adviser***

Students who have finished their course work but have not yet formed a Doctoral Supervisory Committee are required to have an interim adviser and to take ECON 600 on a credit/no credit basis during each quarter in which they are registered. The interim adviser is a member of the Economics faculty who provides advice on selecting a dissertation topic and conducting research. Satisfactory interim adviser reports and credit in ECON 600 are required. It is the student's responsibility to print the interim adviser form from the website, write a brief summary of their research progress during the quarter, have the form signed by their interim adviser, and submit the form to the Graduate Program Counselor by the last day of the quarter.

## **F. *Doctoral Supervisory Committee and the General and Final Examinations***

The final requirements for the PhD are related to the doctoral dissertation. At this stage the student establishes a Doctoral Supervisory Committee to supervise the dissertation work, takes a General Examination, completes the doctoral dissertation, and then takes a Final Examination. The Graduate School's requirements are given in the General Catalog or on the web at [www.grad.washington.edu](http://www.grad.washington.edu). See the Graduate Program Counselor if you have questions about these requirements.

### **1. *Doctoral Supervisory Committee***

After a student has completed all required coursework, passed the core examinations, satisfied the field requirements, and has developed a dissertation topic, a Doctoral Supervisory Committee is appointed. The Supervisory Committee should consist of four to six members. The Chairperson of the Committee must be a regular faculty member of the Economics Department. At least half of the Committee must be faculty members of the Economics Department and either all or all but one of the Committee members must be active or emeritus members of the University of Washington Graduate Faculty. The Committee may include one member who is not on the Graduate Faculty but he or she may not serve as the chairperson. Exceptions to these rules must be approved by the Graduate Committee.

A student registers for ECON 800 after the Doctoral Supervisory Committee has been established. *A student must register for a minimum of 27 credits of ECON 800 over a period of at least three quarters.* No more than ten credits of ECON 800 may be taken per quarter. The student must meet with the Chairperson of his or her Committee on a regular basis.

A student must consult with the Graduate Program Counselor to make a change in the Supervisory Committee after it has been established. It will be necessary for the student to explain in writing (1) the reasons for the requested change and, if applicable, (2) the reasons why the requested change is taking place close to the general or final examination. The requested change must be approved by the Chairperson of the Supervisory Committee, the member(s) removed from the committee, the member(s) added to the committee, the Graduate Program Coordinator, and the Graduate School.

### **2. *General Examination***

The General Examination is an oral defense of the dissertation proposal. The General Exam is scheduled online through the Graduate School's website: [https://www.grad.washington.edu/mgp-stu/student\\_info.aspx](https://www.grad.washington.edu/mgp-stu/student_info.aspx). The student must have received verbal approval of the exam date and time from the committee chair before scheduling the exam. A student must submit a draft copy of his or her General Examination paper to each member of the Supervisory Committee and one copy of the paper to the Graduate Program Counselor *at least three weeks before the examination*. After passing the General Examination the student is advanced to candidacy for the PhD. *The General Examination should be passed no later than the end of the fourth year in the program.*

### **3. Final Examination**

The Final Examination is an oral defense of the completed dissertation. *A student cannot take the Final Examination during the same quarter that he or she passes the General Examination.* The Final Exam is scheduled online through the Graduate School's website: [https://www.grad.washington.edu/mgp-stu/student\\_info.aspx](https://www.grad.washington.edu/mgp-stu/student_info.aspx). The student must have received verbal approval of the exam date and time from the committee chair before scheduling the exam. A student must submit a draft copy of his or her dissertation to each member of the Supervisory Committee and one copy of the dissertation to the Graduate Program Counselor *at least three weeks before the examination*. At that time, a Doctoral Reading Committee is established. The Reading Committee consists of three members of the Supervisory Committee, usually the chairperson and two other members. *Two of the three members of the Reading Committee must be faculty members of the Economics Department.* The Final Examination must be passed within two years of passing the General Examination.

## **G. Registration/Enrollment**

To maintain graduate status, a student must be enrolled on a full-time, part-time, or on-leave basis from the time of first enrollment in the graduate program until completion of all requirements for the graduate degree.

Students with a teaching, research, or staff assistantship must be registered full-time for at least ten credits during each quarter of their appointment except for summer quarter (2 credits is considered full-time registration during summer quarter). ECON 600 (independent study) may be taken in addition to core or field courses to fulfill the ten credit minimum.

International students on a visa must be registered for ten credits every quarter except summer quarter to maintain their full-time student status and to satisfy their visa requirements. ECON 600 (independent study) may be taken in addition to core or field courses to fulfill the ten credit requirement.

Students who have finished their coursework but who have not yet formed a Supervisory Committee will register for ECON 600 (independent study). Once a student's Supervisory Committee has been formed, the student registers for ECON 800 (dissertation) instead of ECON 600.

International students taking ECON800 may be able to register for only 2 credits per quarter during the academic year and still be considered full-time for visa purposes. Please check in with the International Student Services Office for more details and to request approval. However, even if approval is given to register for fewer credits, *the requirement of at least 27 credits of ECON 800 still applies.*

U.S. citizens may register on a part-time basis (less than ten credits), unless the student is a teaching, research, or staff assistant or has a credit requirement from housing or some other financial aid award.

See the Graduate Program Counselor for entry codes for courses or for answers to questions.

## H. *Graduate School Requirements*

All University of Washington Graduate School requirements must be satisfied. (Refer to the General Catalog or to the web site [www.grad.washington.edu](http://www.grad.washington.edu).) *The Graduate School requires a cumulative GPA of at least 3.00.*

## I. *English as a Second Language Requirements*

Students who are required to take English as a Second Language (ESL) courses must take them during their first year and receive credit in each ESL course.

## J. *Satisfactory Progress Toward the PhD Degree*

The PhD program is designed so that students can complete the requirements for the PhD degree in four years. Satisfactory progress in the PhD program is defined in the following table.

### Satisfactory Progress Timeline

**First Year:** Complete the core course requirement and pass the microeconomics and macroeconomics core examinations during September before the start of autumn quarter of the second year.

**Second Year:** Complete the elective course requirement, and satisfy the requirements for two fields of specialization before the start of autumn quarter of the third year.

**Third Year:** Attend at least four departmental seminar and two workshop presentations each quarter, obtain satisfactory interim adviser reports each quarter until the dissertation supervisory committee is formed, select a dissertation topic, and establish a doctoral supervisory committee. The requirements for satisfactory progress are determined by the chairperson of the doctoral supervisory committee once the committee has been established.

**Fourth Year:** Attend at least four departmental seminar and two workshop presentations each quarter, and comply with the requirements for satisfactory progress as determined by the chairperson of the doctoral supervisory committee.

In the case of exceptional circumstances, students may petition the Graduate Program Director to request the extension of a satisfactory progress deadline.

## K. *Minimally Acceptable Progress Toward the PhD Degree*

The following table gives the minimally acceptable rate of progress through the PhD program. Most students satisfy the requirements well before the indicated deadline.

### Minimally Acceptable Progress Deadlines

Requirement	Deadline
Complete the core course requirement and pass the microeconomics and macroeconomics core examinations	by the end of spring quarter of the second year.
Attend four departmental seminars and two workshops each quarter	starting in the third year and continuing until the PhD is received.
Satisfy the requirements for two fields of specialization	by the end of spring quarter of the third year.

Complete the elective courses requirement	by the end of autumn quarter of the third year.
Submit a satisfactory interim adviser report each quarter	starting in the quarter after coursework is completed and continuing until the doctoral supervisory committee is formed.
Establish a doctoral supervisory committee	by the end of January of the fourth year.
Pass the General Examination	by the end of October of the fifth year.
Pass the Final Examination	by the end of summer quarter of the sixth year.

In the case of exceptional circumstances, the student may petition the Graduate Program Director to request the extension of a minimally acceptable progress deadline.

All students are required to satisfy both the Graduate School requirements and these minimally acceptable progress deadlines. If one of the requirements for the PhD is not satisfied by the time shown, the student may be placed on academic probation. If the requirement is not satisfied by the following quarter, the student may be placed on final probation. Failure to satisfy the requirement within two quarters of the deadline may result in dismissal from the program. Thus a student may be on probation if he or she is one quarter late in satisfying one of the requirements, may be on final probation if he or she is two quarters late, and may be dismissed from the program if he or she is more than two quarters late in satisfying one of the requirements. The Chairperson of a student's Supervisory Committee may request a waiver from these requirements on a quarter by quarter basis.

*Note that the Graduate School requires a cumulative GPA of at least 3.00.*

### **III. Financial Assistance**

Students admitted to the program with departmental financial aid are guaranteed funding for their first year, provided they satisfy all of the Graduate School requirements, make satisfactory progress in the program (see Part III.J above), and receive good teaching evaluations (see Part III.A below), and will typically receive funding for the first four years of their program.

Students admitted without initial funding are not guaranteed funding, although the Department will make every effort to provide ongoing financial support. These students are also expected to satisfy the Graduate School requirements, make satisfactory progress in the program, and receive good teaching evaluations.

On-leave status automatically interrupts any funding that has been awarded, and there is no guarantee that it will be available upon return. Students who hold fellowships, grants, stipends, or other forms of funding at a monetary level comparable to the level of support provided by the Department will not generally receive teaching assistantships.

#### **A. Teaching Assistantships**

Teaching assistantships for continuing graduate students are awarded on the basis of performance in the doctoral program, teaching effectiveness as evidenced by course evaluations, and the availability of teaching positions. Completion of ECON 602 is necessary (but not sufficient) for a teaching assignment. Since ECON 602 is offered only in autumn quarter, students interested in teaching are encouraged to take the course in the autumn quarter of their first year. The Department usually has a small number of teaching assistantships for summer quarter. These assignments are highly competitive and are awarded to graduate students who have performed very well in the program and who are exceptionally capable teachers. All teaching assistants are required to administer teaching evaluations each quarter that they teach and to specify that a copy of the results be provided to the Chair of the Department. The Department expects teaching assistants to have good teaching evaluations: the average of items 1-4 on the

evaluation form should be 3.00 or better. The Department will issue a warning for one evaluation below that level, and additional evaluations below that level jeopardize any guarantee of future funding.

**International Students:** *Prior* to receiving a teaching assistantship, international students must demonstrate proficiency in spoken English (NOTE: International students whose native language is English and/or who received a bachelor's degree from a regionally accredited US institution are exempt from this requirement – see <http://www.grad.washington.edu/Acad/gsmemos/gsmemo15.htm> for more information). One of the following is required: a score of at least 26 on the spoken English section of the TOEFLiBT; a score of at least 70 on the Versant English Test, a score of at least 7.0 on the speaking portion of the IELTS, a score of at least 55 on the TSE, or a grade of at least 3.0 in ENGL 105.

**B. *Research Assistantships***

Available research assistantships within the Department are posted on the web at [www.econ.washington.edu/instruction/grad/AcademicStudentEmployees.html](http://www.econ.washington.edu/instruction/grad/AcademicStudentEmployees.html) .

**C. *Dissertation Fellowships***

The Department funds a few dissertation fellowships each year which are awarded on a competitive basis. See the Graduate Program Counselor for information on how to apply.

**D. *Other Funding Sources***

**Paid Internship positions** with local business and government agencies are available year-round. Although the Department occasionally receives and posts information about internships, students are responsible for researching, applying for, and securing internship appointments.

**Paper grading** assignments are posted on the web at [www.econ.washington.edu/instruction/grad/AcademicStudentEmployees.html](http://www.econ.washington.edu/instruction/grad/AcademicStudentEmployees.html) .

**Loan support** and emergency loans are available in limited amounts through the Student Financial Aid Office, 105 Schmitz Hall, (206) 543-6101. The Department of Economics does not offer loan support.

*To anticipate a frequently asked question, there is no way that out-of-state tuition can be waived for first-year non-resident students who do not have an assistantship or fellowship. For information on applying for resident status, contact the Residence Classification Office, 264 Schmitz Hall, 206-543-5932.*

## Appendix

### Course Requirements for Fields of Specialization

This list includes only the primary courses for each field. Some of these courses have prerequisites and there may be other related courses that are recommended as part of the graduate program. Before enrolling in field courses, students should consult with the faculty members responsible for the fields that they plan to pursue. Some fields may not be offered every year.

Fields	Course Requirements
advanced microeconomics	Any two of the following: ECON 511 Advanced Microeconomic Theory: Selected Topics ECON 515 Special Topics in Mathematical Economics ECON 516 Introduction to Noncooperative Game Theory ECON 518 Contract Theory ECON 519 Economics of Contracts and Organizations: Empirics ECON 520 The Economics of Property Rights ECON 523 Emergence of the State ECON 568 Game Theory for Social Scientists
advanced macroeconomics	Any two of the following: ECON 512 Advanced Macroeconomic Theory: Selected Topics ECON 525 Computational Economics ECON 527 Empirics and Theory in Macroeconomics ECON 572 International Financial and Monetary Economics ECON 574 International Macroeconomics ECON 584 Econometric Theory II ECON 592 Development Policy ECON 594 Economic Growth
Econometrics	ECON 583 Econometric Theory I <u>AND</u> any one of ECON 584 Econometric Theory II ECON 585 Econometric Theory III ECON 586 Advanced Applied Time Series Analysis ECON 587 Applied Microeconometrics ECON 589 Financial Econometrics
Comparative systems and development	Any two of the following: ECON 591 Microeconomics of Development ECON 592 Development Policy ECON 595 Analysis of the Transforming Socialist Economies
Finance	FIN 590 Doctoral Seminar in Financial Economics <u>and</u> a course plan to be determined† (ECON 589 may be used to partially fulfill the finance field requirement)
International economics	Any two of the following: ECON 571 International Trade Theory ECON 572 International Financial and Monetary Economics ECON 573 International Commercial Policy ECON 574 International Macroeconomics
Labor economics	Any two of the following: ECON 541 Labor Economics I ECON 542 Labor Economics II

	ECON 543 Population Economics
Natural resource economics	ECON 535 Natural Resource Economics <u>and</u> ECON 536 Environmental Economics‡
Public finance	ECON 550 Public Finance: Expenditure Policy <u>and</u> ECON 551 Public Finance: Tax Policy*

*Students may not use one course to satisfy two field requirements.* For example, Econ 574 cannot be used to satisfy both the macroeconomics and international economics fields.

- † Any student wishing to fulfill the finance field must first meet with the Finance Field Supervisor, Eric Zivot, to determine a course plan. This plan will be put in writing and kept in the student's file. There is no field exam for the finance field. The field requirement is fulfilled by completing FIN 590 and at least one other course approved by Eric Zivot with at an average GPA that has been predetermined in the course plan.
- ‡ Although it cannot be used to satisfy the natural resources field requirement, Econ 539 is available as a special topics course in natural resource and environmental regulation.
- \* Although it cannot be used to satisfy the public finance field requirement, Econ 554 can count toward elective course requirements.