ECONOMICS, PH.D.

The Ph.D. in Economics is offered to superior applicants who hold a master's degree in economics and seek careers in academic departments that focus on public policy and applied microeconomics, in nonacademic research organizations, in business and financial institutions, and in agencies of federal, state and local governments. The program is structured to develop the theoretical, quantitative, and statistical skills that are required to perform and interpret economic analyses on a wide range of policy-oriented issues. Our doctoral program is specifically designed to train students in the fields of labor, health, and public economics (including the economics of education, science and technology policy, urban economics, and resource and environmental economics).

The degree requires 45-57 credit hours.

For information regarding deadlines and requirements for admission, please see the Guide to Graduate Admissions.

Admission to the Ph.D. program requires a completed master's degree in economics with two courses in microeconomic theory, two courses in econometrics, one course in macroeconomics, and demonstrated skills in applied research methods. Students who enter the program with a master's degree in economics may be required to take additional courses (up to a program total of 60 credit hours) if their prior degree does not fully cover these course requirements. Students interested in earning a Ph.D. in economics who do not have a master's degree in economics or who have a master's degree in economics that deviates significantly from these course requirements should apply to the M.A. in Applied Economics Doctoral Track (a combined M.A./Ph.D. program in Economics).

Degree Program Requirements

Required: 45-57 credit hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tr>
<td></td>
<td>Advanced Theory Courses (12 credits)</td>
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<tr>
<td>ECO 741</td>
<td>Advanced Mathematical Economics</td>
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<tr>
<td>ECO 742</td>
<td>Advanced Microeconomic Theory</td>
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<td>ECO 745</td>
<td>Advanced Econometric Theory</td>
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<tr>
<td>ECO 746</td>
<td>Advanced Econometric Theory II</td>
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<td>Core Knowledge Courses (0-12 credits)</td>
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<td>ECO 625</td>
<td>Data Methods in Economics</td>
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<td>ECO 642</td>
<td>Microeconomics II</td>
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<tr>
<td>ECO 644</td>
<td>Econometric Theory</td>
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<td>ECO 646</td>
<td>Macroeconomics</td>
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<td>Empirical Field Courses (9 credits)</td>
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<td>ECO 730</td>
<td>Introduction to Cost Effectiveness</td>
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<td>ECO 731</td>
<td>Applied Policy Methods</td>
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<td>ECO 734</td>
<td>Public Policies Toward Innovation</td>
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<td>ECO 735</td>
<td>Labor Economics</td>
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<td>ECO 736</td>
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<td>ECO 737</td>
<td>Empirical Health Economics</td>
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<tr>
<td>ECO 738</td>
<td>Topics in Economics</td>
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ECO 739 Independent Field Course

Supervised Independent Field Research (12 credits)

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<td>Seminar in Empirical Economics</td>
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<tr>
<td>ECO 798</td>
<td>Seminar in Economic Research</td>
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Dissertation Research (12 credits)

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<td>ECO 799</td>
<td>Dissertation</td>
<td>12</td>
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</table>

Total Credit Hours 45-57

* As indicated by the student's master's transcript.
** Which may be repeated for credit.

Doctoral Qualifying Examinations

In addition to course requirements, doctoral students must pass two Ph.D. qualifying examinations. Examinations focus on a student's comprehensive knowledge in the areas of economic theory and econometrics, respectively. Students are required to pass both examinations in order to retain placement in the doctoral program. Students who do not pass either or both examination(s) may retake the failed examination(s) one time.

Dissertation Research

Work on the dissertation proposal takes place in supervised independent field research courses (ECO 797 Seminar in Empirical Economics and ECO 798 Seminar in Economic Research) under the guidance and supervision of the student's advisory/dissertation committee. The preliminary written and oral examination takes place after submission of the dissertation proposal and is expected to occur by the end of the semester in which the student completes the ECO 798 requirement.

Before registering for dissertation credit (ECO 799 Dissertation), Ph.D. students must be admitted to candidacy by The Graduate School. To make formal application for admission to candidacy, the student must have completed all major required courses, have passed their qualifying examinations, have submitted a dissertation proposal that has been approved by their advisory/dissertation committee, and have passed their preliminary written and oral examination.

After being admitted to candidacy for the doctoral degree, the candidate must prepare and present a dissertation that reflects an independent investigation of an economic topic that is acceptable in form and content to the students advisory/dissertation committee and The Graduate School.