

Course Change Request

New Course Proposal

Date Submitted: 01/24/18 2:43 pm

Viewing: **ECON 816 : Probability and Statistics**

Last edit: 01/24/18 2:43 pm

Changes proposed by: sabarwal

In Workflow

1. CLAS Graduate Program and Course Coordinator
2. CGS PCC Subcommittee
3. CGS Committee
4. CAC
5. CLAS Final Approval
6. Registrar
7. PeopleSoft

Programs referencing this course

[ECON-PhD: Economics, Ph.D.](#)

Academic Career Graduate, Lawrence

Subject Code ECON Course Number 816

Academic Unit Department Economics
School/College College of Lib Arts & Sciences

Locations Lawrence

Do you intend to offer any portion of this course online?
No

Title Probability and Statistics

Transcript Title Probability and Statistics

Effective Term Fall 2018

Catalog Description Basic tools in probability theory, mathematical statistics, and stochastic optimization designed to provide Ph.D. students training in stochastic models useful for all fields in economics.

Prerequisites Ph.D. standing in economics or consent of instructor.

Cross Listed Courses:

Credits 3

Course Type Lecture (Regularly scheduled academic course) (LEC)

Grading Basis A-D(+/-)FI (G11)

Typically Offered Once a Year, Usually Fall

Repeatable for credit? No

Does this course fulfill RSRS (Research Skills Responsible Scholarship)?
No

Will this course be required for a degree, major, minor, certificate, or concentration?

Yes

Which Program(s)?

Program Code - Name

(ECON-PhD) Economics, Ph.D.

Describe how:

It is a core course in the Ph.D. program in economics.

Rationale for Course Proposal This course is one of two courses designed to provide mathematical and quantitative training useful for all Ph.D. students in economics.

Course Reviewer Comments

Approval Path

1. 01/29/18 2:11 pm Rachel Schwien (rschwien): Approved for CLAS Graduate Program and Course Coordinator
2. 02/01/18 3:10 pm Rachel Schwien (rschwien): Approved for CGS PCC Subcommittee



Program Change Request

Date Submitted: 01/24/18 2:41 pm

Viewing: **ECON-PhD : Economics, Ph.D.**

Last edit: 01/24/18 2:41 pm

Changes proposed by: sabarwal

In Workflow

A. CLAS
Graduate
Program and
Course
Coordinator

B. CGS PCC
Subcommittee

C. CGS
Committee

D. CAC

E. CLAS Final
Approval

F. Future
Academic
Catalog

Approval Path

A. 01/29/18 2:11
pm
Rachel
Schwien
(rschwien):
Approved for
CLAS Graduate
Program and
Course
Coordinator

B. 02/05/18 10:32
am
Rachel
Schwien
(rschwien):
Approved for
CGS PCC
Subcommittee

Catalog Pages
Using this
Program

[Doctor of Philosophy in Economics](#)

Academic Career Graduate, Lawrence
Program Type Degree/Major
Department/
Program Economics
School/College College of Lib Arts & Sciences
Degree Code Doctor of Philosophy - PhD

Consulting
School(s)/College(s)

Consulting
Department(s)

CIP Code 450601

Program Name Economics, Ph.D.

Do you intend to offer a track(s)?

Do you intend for this program to be offered online?

No

Effective Catalog 2019 - 2020

Program Description

The Ph.D. program in economics provides a solid foundation in modern economic analysis, develops expertise in two fields in economics, provides milestones and incentives for dissertation research, and supports graduate student professional development and placement. The department has a long-standing tradition of producing Ph.D. economists with strong foundational skills and expertise.

Degree
Requirements

Ph.D. Degree Requirements

Course Requirements

In addition to meeting general requirements, the Ph.D. candidate in economics must complete a minimum of **48 54**-credit hours of course work, at least **42 48**-of which must be in economics.

A. All Ph.D. candidates must complete these core courses in economic theory and quantitative methods

ECON 800	Optimization Techniques I	3
ECON 801	Microeconomics I	3
ECON 802	Microeconomics II	3
ECON 809	Optimization Techniques II	3
ECON 810	Macroeconomics I	3
ECON 811	Macroeconomics II	3

ECON 817	Econometrics I	3
ECON 818	Econometrics II	3
MATH 727	Probability Theory	3
MATH 728	Statistical Theory	3
ECON 816	Probability and Statistics	

Qualifying Examinations

Each Ph.D. Course work beyond these required core courses is a matter of choice for the student in consultation with his or her graduate advisor. The graduate advisor develops a program to assist the student in specialized interests. Each program must include a sufficiently broad range of topics in economics to prepare the student for comprehensive examinations. **Qualifying Examinations-Ph.D. student is required to degree aspirants must pass** written qualifying examinations in microeconomics and macroeconomics after completion of the core courses in these **areas. areas, ordinarily at the beginning of the fourth semester of full-time study.** A student who does not pass a qualifying examination may be permitted **one 1-retake, ordinarily within a few weeks at the end of the first attempt. fourth semester of full-time study**

In order to demonstrate competency in econometrics, each Ph.D. Third-Year Paper Each student must complete [ECON 817](#) and [ECON 818](#), with a combined grade point average of 3.0. **third-year seminar paper.** A student who does not achieve the 3.0 combined grade point average is required to pass, without retake, a written comprehensive examination in econometrics.

Fields of Specialization

Each student **is required to must** demonstrate competence in at least **two 2** fields of specialization in economics by completing **two 2** courses in each **field. of these areas.** Current fields of specialization include **econometrics, economic development, economic history, economic theory,** financial economics, **economic development,** industrial organization, international economics, labor economics, **econometrics, economic history, economic theory,** and macroeconomics. **These may be updated based on student interest and faculty availability.**

Seminar Workshops

After passing qualifying exams, Seminar Workshops and Responsible Scholarship Beginning in the third year of the program, each student **is required to must** enroll in [ECON 910](#) and attend the weekly department seminars for 6 continuous **semesters or until graduation (whichever is earlier). semesters.**

Second-Year Paper

Each student is required program must include a sufficiently broad range of topics in economics to **complete a second-year paper by prepare the end of the fourth semester (second year) of study. student for comprehensive examinations.**

Third-Year Paper

Each Comprehensive Oral Examination Upon completion of most of the course work and other requirements for the doctoral degree, inclusive of research skills and residence requirements, **the student is required to complete must prepare a third-year paper by the end of the sixth semester (third year) of study. dissertation proposal under the direction of a thesis advisor and pass a comprehensive oral examination related to the dissertation proposal.**

Research Skills and Responsible Scholarship

Every doctoral student is required to have training in **research skills and** responsible scholarship pertinent to economics research. **Enrollment in one semester of [ECON 910](#) and successfully completing the third year paper requirement satisfies these requirements.**

Comprehensive Oral Examination

Each student Course work beyond these required core courses **is required to pass a matter of choice for the comprehensive oral examination by the end of the eighth semester (fourth year) of study. student in consultation with his or her graduate advisor.** It is strongly recommended that a student **pass this exam by the end of the seventh semester.**

Each semester there will be 1 90-minute seminar on this topic led by either a faculty member or a visiting speaker. Third-Year Paper Each student must complete a third-year seminar paper. This would typically be in one of the fields of specialization. Usually the third-year paper becomes part of the student's doctoral dissertation. **Comprehensive Oral Examination** Upon completion of most of the course work and other requirements for the doctoral degree, inclusive of research skills and residence requirements, the student must prepare a **dissertation proposal under the direction of a thesis advisor and pass a comprehensive oral examination related to the dissertation proposal. Dissertation**

Following the comprehensive oral examinations, the candidate must organize and write a dissertation on his or her chosen topic under the supervision of a dissertation committee.

Final Oral Examination

The candidate must defend the dissertation successfully in a final oral examination.

Rationale for proposal

The proposal is designed (1) to reorganize core course structure so that mathematics and quantitative training for Ph.D. students in economics Ph.D. is streamlined, students may take qualifying exams after their first year, and they may move more quickly to specializations and research, and (2) to provide additional milestones and incentives along the path to the final dissertation.

Additional Information**Supporting Documents****Program Reviewer Comments**

Key: 203

