Stanford University

Economics Department

Contacts

Office: Landau Economics Building, 579 Jane Stanford Way
Mail Code: 94305-6072
Phone: (650) 725-3266
Web Site: http://economics.stanford.edu

Courses offered by the Department of Economics are listed under the subject code ECON on the Stanford Bulletin's ExploreCourses website.

The department's purpose is to acquaint students with the economic aspects of modern society, to familiarize them with techniques for the analysis of contemporary economic problems, and to develop in them an ability to exercise judgment in evaluating public policy. There is training for the general student as well as for those who plan careers as economists in civil service, private enterprise, teaching, or research.

The department's curriculum is an integral part of Stanford's programs in International Relations, Public Policy, and Urban Studies.

The faculty interests and research cover a wide spectrum of topics in most fields of economics, including behavioral economics, comparative institutional analysis, econometrics, economic development, economic history, experimental economics, industrial organization, international trade, labor, macro- and microeconomic theory, mathematical economics, environmental economics, and public finance.

Mission of the Undergraduate Program in Economics

The mission of the undergraduate program in Economics is to acquaint students with the economic aspects of modern society, to familiarize them with techniques for the analysis of contemporary economic problems, and to develop in them an ability to exercise judgment in evaluating public policy. The program introduces students to macro-and microeconomic theory, teaches them to think and write clearly about economic problems and policy issues and to apply the basic tools of economic analysis. The undergraduate major provides an excellent background for those who plan careers in government and private enterprise as well as those pursuing graduate degrees in professional schools or in the field of economics.

Learning Outcomes (Undergraduate)

The department expects undergraduate majors in the program to be able to demonstrate the following learning outcomes. These learning outcomes are used in evaluating students and the department's undergraduate program. Students are expected to demonstrate:

1. understanding of core knowledge within Economics.
2. ability to analyze a problem and draw correct inferences using qualitative and/or quantitative analysis.
3. ability to write clearly and persuasively and communicate ideas clearly.
4. ability to evaluate theory and critique research within the discipline.

Graduate Programs in Economics

The primary objective of the graduate program is to educate students as research economists. In the process, students also acquire the background and skills necessary for careers as university teachers and as practitioners of economics. The curriculum includes a comprehensive treatment of modern theory and empirical techniques. Currently, 20 to 25 students are admitted each year.

Graduate programs in economics are designed to ensure that students receive a thorough grounding in the methodology of theoretical and empirical economics, while at the same time providing specialized training in a wide variety of subfields and a broad understanding of associated institutional structures. Toward these ends, the program is arranged so that the student has little choice in the curriculum at the outset but considerable latitude later on.

Students admitted to graduate standing in the department are expected to have a strong background in college-level economics, mathematics, and statistics. Preparation ordinarily consists of a college major in economics, a year-long calculus sequence that includes multivariate analysis, a course in linear algebra, and a rigorous course in probability and statistics.

Learning Outcomes (Graduate)

The purpose of the master's program is to further develop knowledge and skills in Economics and to prepare students for a professional career or doctoral studies. This is achieved through completion of courses, in the primary field as well as related areas, and experience with independent work and specialization.

The Ph.D. is conferred upon candidates who have demonstrated substantial scholarship and the ability to conduct independent research and analysis in Economics. Through completion of advanced course work and rigorous skills training, the doctoral program prepares students to make original contributions to the knowledge of Economics and to interpret and present the results of such research.

Fellowships and Assistantships

The department awards a number of fellowships for graduate study. All students whose records justify continuation in the program may be assured support for the second through fifth years in the form of employment as a teaching or research assistant. All first year and a few second or third year students are typically awarded full fellowships, including a stipend and tuition. Second year students who are not on fellowship receive support in their entire second year (and surrounding summers) through a second year RAship. Third and fourth year students typically arrange for RA support directly with a faculty adviser or request TA support through the department. These half-time (20 hours per week) appointments provide a living wage and tuition allowance. Entering students are not eligible for research or teaching assistantships. Students in their final job market year are encouraged to apply for SIEPR dissertation research fellowships.

Faculty

Emeriti: (Professors) Takeshi Amemiya, Timothy F. Bresnahan, Walter Falcon, Victor R. Fuchs, Avner Greif, Lawrence Goulder, Peter J. Hammond, Donald Harris, Anne O. Krueger, Mordecai Kurz, Lawrence J. Lau, Roger G. Noll, John H. Pencavel, Thomas Sargent, John B. Shoven, David A. Starrett, Gavin Wright

Department Chair: Liran Einav

Vice Chair: Matt Gentzkow

Director of Graduate Studies: Melanie Morten

Director of Undergraduate Studies: B. Douglas Bernheim

Associate Director of Undergraduate Studies: Chris Makler

Professors: Ran Abramitzky, Kyle Bagwell, B. Douglas Bernheim, Nicholas Bloom, Michael Boskin, Mark Duggan, Liran Einav, Matthew Gentzkow, Robert E. Hall, Han Hong, Caroline Hoxby, Guido Imbens, Matthew Jackson, Patrick Kehoe, Pete Klenow, Jonathan Levin, Thomas E. MaCurdy, Neale Mahoney, Paul R. Milgrom, Melanie

Morten, Muriel Niederle, Monika Piazzesi, Luigi Pistaferri, Joseph Romano, Alvin Roth, K. Martin Schneider, Ilya Segal, John B. Taylor, Alessandra Voena, Frank Wolak

Associate Professors: Luigi Bocola, Arun Chandrasekhar

Assistant Professors: Adrien Auclert, Ignacio Cuesta, Ravi Jagadeesan, Petra Persson, Isaac Sorkin

Lecturers: Marcelo Clerici-Arias, Chris Makler, Scott McKeon, Mark Tendall

Postdocs: Oğuzhan Çelebi, John Conlon, Gabriele Cristelli, Hannah Postel

Affiliated Faculty: Elena Pastorino

Courtesy Professors: Hunt Allcott, Susan Athey, Lawrence Baker, Jay Bhattacharya, Erik Brynjolfsson, Jeremy Bulow, Steve Callander, Darrell Duffie, Marcel Fafchamps, James D. Fearon, Gopi Shah Goda, Jacob Goldin, Stephen H. Haber, Bård Harstad, Hongbin Li, Grant Miller, Rosamond L. Naylor, Peter C. Reiss, Gregory Rosston, Kenneth Singleton, Andrzej Skrzypacz

Courtesy Associate Professors: Rebecca Diamond, Saumitra Jha, Maya Rossin-Slater

Courtesy Assistant Professor: Jann Spiess

Visiting Professors: Ben Brooks, Sigal Oren

Programs

Master of Arts in Economics

University requirements for the master's degree are described in the Graduate Degrees section of this bulletin.

The Economics department does not offer a terminal M.A. degree. An M.A degree may only be pursued in combination with a doctoral degree from Economics or another department at the University. Students must be currently enrolled in a Ph.D. program at Stanford before adding the Economics M.A. degree. Economics students may, but need not, elect to add this degree in addition to their current Ph.D. degree after they have been enrolled at Stanford for at least one quarter.

Adding the M.A. Degree

While a formal application to the M.A program is not required, current Ph.D. students (including those in the Economics Ph.D. program) must:

1. Submit a Graduate Authorization Petition via Axess in order to add the M.A. as an additional degree. Students must have completed the Stanford requirements for a B.A. in Economics or approximately equivalent training. Since students are required to take some of the same courses as Ph.D. candidates, similar preparation in mathematics and statistics generally is expected before the petition to add the M.A. will be approved.
2. Complete the Master's Program Proposal form and submit it to the Economics Student Services Manager.
3. Apply to graduate (in Axess, before the quarterly deadline) in the quarter you wish to confer the degree. The degree is not conferred automatically.

Joint Degree Programs in Economics with the School of Law

J.D./M.A. and J.D./PH.D.

The Department of Economics and the School of Law offer a joint program leading to either a J.D. degree combined with an M.A. degree in Economics, or to a J.D. degree combined with a Ph.D. in Economics.

The J.D./M.A. and J.D./Ph.D. degree programs are designed for students who wish to prepare themselves for careers in areas relating to both law and economics. Students interested in either joint degree program must apply and gain entrance separately to the School of Law and the Department of Economics and, as an additional step, must secure permission from both academic units to pursue degrees in those units as part of a joint degree program. Interest in either joint degree program should be noted on the student's admission applications and may be considered by the admission committee of each program. Alternatively, an enrolled student in either the Law School or the Economics department may apply for admission to the other program and for joint degree status in both academic units after commencing study in either program.

Joint degree students may elect to begin their course of study in either the School of Law or the Department of Economics. Faculty advisers from each academic unit participate in the planning and supervising of the student's joint program. Students must be enrolled full time in the Law School for the first year of law school, and, at some point during the joint program, may be required to devote one or more quarters largely or exclusively to studies in the Economics program regardless of whether enrollment at that time is in the Law School or in the Department of Economics. At all other times, enrollment may be in the graduate school or the Law School, and students may choose courses from either program regardless of where enrolled. Students must satisfy the requirements for both the J.D. and the M.A. or Ph.D. degrees as specified in this bulletin or by the School of Law.

The Law School approves courses from the Economics Department that may count toward the J.D. degree, and the Economics department approves courses from the Law School that may count toward the M.A. or Ph.D. degree in Economics. In either case, approval may consist of a list applicable to all joint degree students or may be tailored to each individual student's program. The list may differ depending on whether the student is pursuing an M.A. or a Ph.D. in Economics.

In the case of a J.D./M.A. program, no more than 45 quarter hours of approved courses may be counted toward both degrees. In the case of a J.D./Ph.D. program, no more than 54 quarter hours of approved courses may be counted toward both degrees. In either case, no more than 36 quarter hours of courses that originate outside the Law School may count toward the Law degree. To the extent that courses under this joint degree program originate outside the Law School but count toward the Law degree, the Law School credits permitted under Section 17(1) of the Law School Regulations shall be reduced on a unit-per-unit basis, but not below zero. The maximum number of Law School credits that may be counted toward the M.A. or the Ph.D. in Economics is the greater of: (a) 5 quarter hours in the case of the M.A. and 10 quarter hours in the case of the Ph.D.; or (b) the maximum number of hours from courses outside of the department that M.A. or Ph.D. candidates in Economics are permitted to count toward the applicable degree under general departmental guidelines or in the case of a particular student's individual program.

Tuition and financial aid arrangements are normally made through the school in which the student is then enrolled.

For more information, see the Law School's Degrees and Joint Degrees website.

Joint Degree Program in Ph.D. in Economics and Master of Public Policy

The Ph.D./M.P.P. joint degree is designed for students who wish to prepare themselves for careers in areas relating to both policy and economics. Students interested in this degree first apply to the Economics Department, indicating an interest in the joint program. There is one admissions application and one fee. If the decision is made by the department to admit the applicant, the file is then forwarded to the M.P.P. program. An admission decision, based on the information in the Ph.D. application, is made promptly, and the department informs the student of the decision.

Students may also apply to the M.P.P. after having commenced study in the Economics Department at Stanford, by first receiving the consent of the Director of Graduate Studies in Economics and then applying to the Public Policy program.

Students must have a faculty adviser from the Economics Department to assist with the planning and supervising of the joint program. The adviser is usually chosen from among the department's Public Policy-affiliated faculty.

Tuition and financial aid arrangements are made through the Economics Department.

Other Programs

Other programs leading to dual degrees may be arranged. For example, the Ph.D. in Economics combines with one or two years of study in the School of Law, leading to the nonprofessional Master of Legal Studies (M.L.S.) degree. A dual degree program does not permit counting any courses toward both the Economics and the Law degrees. For more information, see the Law School's Degrees and Joint Degrees website.

Programs

Overview

Program Overview

The undergraduate program in Economics aims to acquaint students with the economic aspects of modern society, familiarize them with techniques for analyzing contemporary economic problems, and develop an ability to exercise judgment in evaluating public policy. The program introduces students to macro- and microeconomic theory, teaches them to think and write clearly about economic problems and policy issues and apply essential economic analysis tools. The undergraduate major provides an excellent background for those who plan government and private enterprise careers and those pursuing graduate degrees in professional schools or economics.

Simple Requisites

Core Program Requirements

Type

Completion Requirement

Core Courses

Complete ALL of the following Courses:

- ECON1 - Principles of Economics
- ECON50 - Economic Analysis I
- ECON51 - Economic Analysis II
- ECON52 - Economic Analysis III
- ECON102A - Introduction to Statistical Methods (Postcalculus) for Social Scientists
- ECON102B - Applied Econometrics

Overview

Program Overview

An MA degree may only be pursued in combination with a doctoral degree from Economics or another department at the university. Students must be enrolled in a PhD program at Stanford before adding the Economics MA degree. Economics students may, but need not, elect to add this degree to their current PhD degree after they have been enrolled at Stanford for at least one quarter.

Non-economics PhD students must have completed Stanford University requirements for a BA in Economics or approximately equivalent training. Since non-Econ PhD students are required to take some of the same courses as Economics PhD candidates, similar preparation in mathematics and statistics is generally expected before the petition to add the MA is approved.

Simple Requisites

Core Program Requirements

Type

Completion Requirement

Requirements Overview

A master’s program must satisfy these criteria:

- Completing, at Stanford, at least 45 units of credit beyond those required for the bachelor’s degree, of which at least 40 units must be in the Department of Economics
- A grade point average (GPA) of 3.0 must be

Field Courses

Must be taken at Stanford in California. The economics major does not require following a specific track or concentration; however, students should go to economics.stanford.edu to see the economics courses listed by focus areas.

Complete at least 5 of the following courses:

- ECON102C - Advanced Topics in Econometrics
- ECON102D - Econometric Methods for Public Policy Analysis and Business Decision-Making
- ECON108 - Data Science for Business and Economic Decisions
- ECON111 - Money and Banking
- ECON112 - Financial Markets and Institutions: Recent Developments
- ECON113 - Historical perspectives on inequality and opportunity in America
- ECON118 - Development Economics
- ECON125 - Economic Development, Microfinance, and Social Networks
- ECON126 - Economics of Health and Medical Care
- ECON127 - Economics of Health Improvement in Developing Countries
- ECON131 - The Chinese Economy
- ECON135 - Foundations of Finance
  OR ECON140 - Introduction to Financial Economics
  OR ECON141 - Financial Markets
- ECON136 - Market Design
- ECON137 - Decision Modeling and Information
- ECON145 - Labor Economics
- ECON146 - Economics of Education
- ECON147 - The Economics of Labor Markets
- ECON149 - The Modern Firm in Theory and Practice
- ECON150 - Economic Policy Analysis
- ECON155 - Environmental Economics and Policy

- A grade point average (GPA) of 3.0 must be maintained for all master's level work. All lecture courses must be taken for a letter grade

Microeconomics

Complete ALL of the following Courses:

- ECON202 - Microeconomics I
  OR ECON202N - Microeconomics I For Non-Economics PhDs students

They must receive a B- or better grade in ECON202 MICROECONOMICS I Microeconomics I or ECON202N MICRO I FOR NON-ECON PHDS Microeconomics I For Non-Economics PhDs students.

Metrics Sequence

Each course in the Metrics Sequence must be completed with a B- or better.

Complete at least 1 of the following:

Intermediate Econometrics

Complete ALL of the following Courses:

- ECON270 - Intermediate Econometrics I
- ECON271 - Intermediate Econometrics II

Beginning Econometrics

Complete ALL of the following Courses:

- ECON102A - Introduction to Statistical Methods (Postcalculus) for Social Scientists
- ECON102B - Applied Econometrics
- ECON102C - Advanced Topics in Econometrics

Complete at least three other 200-level lecture courses

Complete at least 3 courses in the following course sets:

- ECON157 - Imperfect Competition
- ECON158 - Regulatory Economics
- ECON160 - Game Theory and Economic Applications
  OR ECON167G - Game Theory and Social Behavior
  OR ECON180 - Honors Game Theory
- ECON165 - International Finance
- ECON166 - International Trade
- ECON177 - Empirical Environmental Economics
- ECON178 - Behavioral Economics
- ECON179 - Experimental Economics
- ECON185 - Data Science for Environmental Business
- ECON198 - Junior Honors Seminar
- ECON199D - Honors Thesis Research

- Students may not count units from Econ 140, ECON 141, and Econ 135 toward their major as the courses are too similar in content.
- Students may count toward the econ field course requirement Econ 160, Econ 167G, or 180. The others may count as electives.

Elective Courses

Earn at least 20 credits
Students complete 20-27 units in addition to the field courses taken; choose from any ECON courses offered for a letter grade.

- If students waive the course, they must take five units of elective courses to make up the five waived ECON1 PRINCIPLES OF ECONOMICS units.
- If the Field Course requirement of 5 courses does not add up to 25 units, the missing units can be made up with elective units.
- Up to 10 units of this requirement may be fulfilled by upper-division math, statistics, or computer science with the approval of the Director of Undergraduate Studies.
- A maximum of 10 units of transfer credit or course Directed Reading or approved courses offered by the Bing Overseas

- ECON 200-Level Courses

Term Papers

Submitting two term papers (or a thesis of sufficient quality). At least one of these papers must be deemed to represent graduate-level work. Usually, this means that it is written in connection with a 200-level course. A maximum of five credit units can be earned for a thesis (Econ 400 or comparable MA thesis or dissertation course in another department) toward the 45-unit degree requirement.

Additional Comments:

Program Policies

External Credit Policies
Policies related to transferring graduate units taken at another institution **do not apply** to the MA degree. All units toward the MA degree must be completed at Stanford (GAP 3.2.1; GAP 4.5.1).

Advising Expectations
See Graduate Advising for a statement of university policy on graduate advising.

The Department of Economics is committed to providing academic advising in support of graduate students' scholarly and professional development. When most effective, this advising relationship entails collaborative and sustained engagement by the advisor and the advisee. As a best practice, advising expectations should be periodically discussed and reviewed to ensure mutual understanding. Both the advisor and the advisee are expected to maintain professionalism and integrity.

Faculty advisors guide students in critical areas such as selecting courses, designing and conducting research, developing teaching pedagogy, navigating policies and degree requirements, and exploring academic opportunities and professional pathways.

Graduate students are active contributors to the advising relationship, proactively seeking academic and professional guidance and taking responsibility for

Studies Program may be taken under this section. Suitable transfer credit must be approved in writing by the Director of Undergraduate Studies.
- Advanced undergraduate majors with strong quantitative preparation may enroll in Econ graduate (200-level) courses with the permission of the Director of Undergraduate Studies and the course instructor.
- The department does not give credit for internships.

Additional Comments:

Writing in Major (WIM)
Type
Completion Requirement

Writing in Major (WIM)

Complete ALL of the following Courses:
- ECON101 - Economic Policy Seminar

Must be taken at Stanford in California. This course should be taken only after completing ECON51 ECONOMIC ANALYSIS II Economic Analysis II and ECON52 ECONOMIC ANALYSIS III Economic Analysis III, ECON102B APPLIED ECONOMETRICS Applied Econometrics, and at least two field courses.

Additional Comments:

Capstone Experience
Type
Completion Requirement

Additional Comments:
For students graduating in 2024-25 and beyond, the Economics capstone experience will consist of two components:

1. Starting right after declaring the Economics major, every student will develop an electronic portfolio, highlighting critical aspects of their

and professional guidance and taking responsibility for informing themselves of policies and degree requirements for their graduate program.

Learning Outcomes

Program Learning Outcomes

The purpose of the master's program is to further develop knowledge and skills in Economics and to prepare students for a professional career or doctoral studies. This is achieved through completing courses in the primary field and related areas and experience with independent work and specialization.

economic experience and reflecting on it.

2. During their senior year, every Economics major will choose one of the following paths: (a) researching and writing an honors thesis or (b) taking ECON101 ECONOMIC POLICY SEMINAR, a one-quarter course emphasizing empirical analysis and writing. Successfully completing either path will also count toward the writing in the major requirement.
    - ECON101 ECONOMIC POLICY SEMINAR is only available to students completing their final year of coursework, and enrollment is limited by application at the start of each school year. Student placement notifications will be sent out before the term starts. ECON101 ECONOMIC POLICY SEMINAR must be taken at Stanford California and may only be taken after completing ECON51 ECONOMIC ANALYSIS II, ECON52 ECONOMIC ANALYSIS III, ECON102B APPLIED ECONOMETRICS, and at least two field courses.

Honors (optional)

Type

Completion Requirement

Honors Course Requirements

Enroll in the following Courses:

- ECON199D - Honors Thesis Research

The honors program offers independent research, creativity, and achievement opportunities. It is designed to encourage a more intensive study of economics than is required for the typical major, with course and research work of exceptional quality. Honors students submit their theses in writing and present them during the Honors Research Symposium during spring quarter. The honors program requires:

- Completing all requirements for the major plus five additional units, bringing the total to 85 units.

- Achieving a grade point average (GPA) of at least 3.5 for the required courses of the Economics major (excluding ECON 139D DIRECTED READING Directed Reading and ECON 199D HONORS THESIS RESEARCH Honors Thesis Research). See details in the Information Book for Economics Majors.
- Complete ECON 102B APPLIED ECONOMETRICS Applied Econometrics and at least two Econ upper-division courses most relevant to the proposed topic of the honors thesis by the end of the junior year. (These can be included in the basic 80 units.)
- Candidates must **write and present an honors thesis in their senior year** for one to nine credit units in their thesis advisor's section of Econ 199D. Additionally, winter registration for one unit of Honors Thesis Research under the Director of the Honors Program section number (199D-20) is mandatory for all honors students. The thesis must be of very high quality and written under the direction of a member of the department or its affiliated faculty.

Honors Application Deadline

Prospective candidates for the honors program should apply to the director no later than the third Wednesday of autumn quarter for spring quarter degree conferral. Also required, in the same quarter, is a three-page thesis proposal that the thesis advisor must approve.
Juniors interested in the honors program should contact the honors program director for more information.

Additional Comments:

Program Policies

External Credit Policies

Students scoring a five on the advanced placement microeconomics and advanced placement macroeconomics exams may petition the Director of Undergraduate Studies to waive the ECON1 PRINCIPLES OF ECONOMICS Principles of Economics course requirement. Students do not receive unit credit for placing out of ECON1 PRINCIPLES OF ECONOMICS Principles of Economics.

To use transfer credit in partial satisfaction of the requirements, the student must obtain written consent from the department's Director of Undergraduate Study, who establishes the amount of credit to be granted toward the department requirements (see the Information Book for Undergraduate Economics Majors). Students must have completed all Stanford prerequisites for approved transfer credit courses to use those courses toward the Economics major. See the department's Transfer Credit website for additional information.

Course prerequisites are enforced. Students taking courses to satisfy prerequisites in another department or institution must petition for Stanford course substitution or transfer credit approval.

Learning Outcomes

Program Learning Outcomes

Learning outcomes are used in evaluating students and the department's undergraduate program. The department expects undergraduate majors in the program to be able to demonstrate the following learning outcomes:

- Understanding of core knowledge within Economics
- Ability to analyze a problem and draw correct inferences using qualitative and/or quantitative analysis
- Ability to write clearly and persuasively and communicate ideas clearly
- Ability to evaluate theory and critique research within the discipline

Overview

Program Overview

The minor in Economics has two main goals:

- To acquaint students with the rudiments of micro- and macroeconomic theory that are required of all majors
- To allow students to build competence in the application of this theory to two fields of economics of their choosing and the opportunity to specialize further in any one of these fields by taking one additional advanced course in the Department of Economics

Students must complete their declaration of the minor no later than the last day of the preceding quarter before their degree conferral.

Simple Requisites

Core Program Requirements

Type

Completion Requirement

Requirements Overivew

At least 20 out of the 35 units for the minor must be taken at Stanford. Students must have completed all Stanford prerequisites for approved transfer credit courses to use those courses toward the Economics minor.

No courses receiving Department of Economics credit under the preceding requirements may be taken credit/no credit. The combined total of all minor units must equal the grade point average (GPA) of 2.0 (C) or better.

Core Courses - Complete for a total of 20 units

Complete ALL of the following Courses:

- ECON1 - Principles of Economics
- ECON50 - Economic Analysis I
- ECON51 - Economic Analysis II
- ECON52 - Economic Analysis III

Field Courses - Complete for a total of 10 units

Complete ALL of the following Courses:

- ECON102A - Introduction to Statistical

Overview

Program Overview

The department's purpose is to acquaint students with the economic aspects of modern society, to familiarize them with techniques for analyzing contemporary economic problems, and to develop an ability to exercise judgment in evaluating public policy. There is training for the general student and those who plan careers as economists in civil service, private enterprise, teaching, or research.

The department's curriculum is integral to Stanford's International Relations, Public Policy, and Urban Studies programs.

The faculty interests and research cover a broad spectrum of topics in most fields of economics, including behavioral economics, comparative institutional analysis, econometrics, economic development, economic history, experimental economics, industrial organization, international trade, labor, macro- and microeconomic theory, mathematical economics, environmental economics, and public finance.

The primary objective of the graduate program is to educate students as research economists. In the process, students also acquire the background and skills necessary for careers as university teachers and as practitioners of economics. The curriculum includes a comprehensive treatment of modern theory and empirical techniques. Currently, 20 to 25 students are admitted each year.

Graduate programs in economics are designed to ensure that students receive a thorough grounding in the methodology of theoretical and empirical economics while at the same time providing specialized training in a wide variety of subfields and a broad understanding of associated institutional structures. Toward these ends, the program is arranged so that the student has little choice in the curriculum at the outset but considerable latitude later.

Students admitted to graduate standing in the department are expected to have a strong college-level economics, mathematics, and statistics background. Preparation ordinarily consists of a

- ECON102A - Introduction to Statistical Methods (Postcalculus) for Social Scientists
- ECON102B - Applied Econometrics
- ECON102C - Advanced Topics in Econometrics
- ECON102D - Econometric Methods for Public Policy Analysis and Business Decision-Making
- ECON111 - Money and Banking
- ECON112 - Financial Markets and Institutions: Recent Developments
- ECON118 - Development Economics
- ECON125 - Economic Development, Microfinance, and Social Networks
- ECON126 - Economics of Health and Medical Care
- ECON135 - Foundations of Finance
  OR ECON140 - Introduction to Financial Economics
- ECON136 - Market Design
- ECON137 - Decision Modeling and Information
- ECON146 - Economics of Education
- ECON147 - The Economics of Labor Markets
- ECON149 - The Modern Firm in Theory and Practice
- ECON155 - Environmental Economics and Policy
- ECON157 - Imperfect Competition
- ECON158 - Regulatory Economics
- ECON160 - Game Theory and Economic Applications
  OR ECON167G - Game Theory and Social Behavior
  OR ECON180 - Honors Game Theory
- ECON165 - International Finance
- ECON166 - International Trade
- ECON178 - Behavioral Economics
- ECON179 - Experimental Economics
- ECON198 - Junior Honors Seminar
- ECON202 - Microeconomics I
- ECON210 - Macroeconomics I

- Students may not count units from both

background. Preparation ordinarily consists of a college major in economics, a year-long calculus sequence that includes multivariate analysis, a course in linear algebra, and a rigorous course in probability and statistics.

Simple Requisites

Program Requirements

Type

Completion Requirement

Requirements Overview

- 135 units of full-tuition residency are required for PhD students. After that, a student should have completed all coursework and must request Terminal Graduate Registration (TGR) status.
- To pass a sequence, an overall grade of B is required, and individual course grades must be B- or better.

Graduate Core

To pass a sequence, an overall grade of B is required, and individual course grades must be ‘B-’ or better. Petitions to substitute courses or waive out of any core course must be submitted to the Director of Graduate Study at least two weeks before the start of the term.

Fulfill ALL of the following requirements:

Microeconomics

Complete ALL of the following Courses:

- ECON202 - Microeconomics I
- ECON203 - Microeconomics II
- ECON204 - Microeconomics III

Macroeconomics

Complete ALL of the following Courses:

- ECON210 - Macroeconomics I
- ECON211 - Macroeconomics II
- ECON212 - Macroeconomics III

Econometrics

ECON 135 and ECON 140 toward their minor as the courses are too similar in content.
- Students may not count units from ECON 160, ECON 167G, and ECON 180 toward their minor as the courses cover similar subject matter.
- For ECON 202 or ECON 210, students may enroll with the permission of the Director of Undergraduate Studies and the course instructor.

Electives

Complete a total of five units, selecting from any ECON courses offered for letter grades.

Additional Comments:

Free Form Requirements

Degree Requirements

At least 20 out of the 35 units for the minor must be taken at Stanford. Students must have completed all Stanford prerequisites for approved transfer credit courses to use those courses towards the Economics minor.

No courses receiving Department of Economics credit under the preceding requirements may be taken credit/no credit. The combined total of all units for the minor must equate to the grade point average (GPA) of 2.0 (C) or better.

Course Requirements

		Course List
		UNITS
Core Courses		**20**
ECON1 PRINCIPLES OF ECONOMICS	Principles of Economics	5
ECON50 ECONOMIC ANALYSIS I	Economic Analysis I (Prerequisites: ECON1 PRINCIPLES OF ECONOMICS and MATH51 LIN ALG, MULTIVAR CALC,MOD APP or CME100 VECTOR CALCULUS FOR	5

Complete ALL of the following Courses:
- ECON270 - Intermediate Econometrics I
- ECON271 - Intermediate Econometrics II
- ECON272 - Intermediate Econometrics III: Methods for Applied Econometrics

Field Requirement

Complete at least 2 of the following:

Behavioral and Experimental Economics

Complete ALL of the following Courses:
- ECON278 - Behavioral and Experimental Economics I
- ECON279 - Behavioral and Experimental Economics II
- ECON280 - Behavioral and Experimental Economics III

Econometric Methods For Causal Inference

Complete at least 2 of the following courses:
- ECON292 - Quantitative Methods for Empirical Research
- ECON293 - Machine Learning and Causal Inference
- STATS361 - Causal Inference

Econometrics

A student may satisfy the requirements for the econometrics field by completing the requirements of **one** of two subfields:

Complete at least 1 of the following:

Theoretical Econometrics

Complete ALL of the following Courses:
- ECON273 - Advanced Econometrics I
- ECON274 - Advanced Econometrics II

	ENGINEERS or CME100ACE VECTOR CALC FOR ENGINEERS, ACE)	
ECON51 ECONOMIC ANALYSIS II	Economic Analysis II (Prerequisite: ECON50 ECONOMIC ANALYSIS I)	5
ECON52 ECONOMIC ANALYSIS III	Economic Analysis III (Prerequisite: ECON50 ECONOMIC ANALYSIS I)	5
Field Courses		**10**
Must be taken at Stanford in California		
ECON102A INTRO TO STATISTICAL METHODS	Introduction to Statistical Methods (Postcalculus) for Social Scientists	5
ECON102B APPLIED ECONOMETRICS	Applied Econometrics	5
ECON102C ADV ECONOMETRICS	Advanced Topics in Econometrics	5
ECON102D ECONOMETRIC METHOD-PUBPOL-BUS	Econometric Methods for Public Policy Analysis and Business Decision-Making	5
ECON111 MONEY & BANKING	Money and Banking	5
ECON112 FINANCIAL MKTS & INSTITUTIONS	Financial Markets and Institutions: Recent Developments	5
ECON118 DEVELOPMENT ECONOMICS	Development Economics	5
ECON125 ECON DEVEL, MICROFIN, SOC NET	Economic Development, Microfinance, and Social Networks	5
ECON126 ECON OF HEALTH & MEDICAL CARE	Economics of Health and Medical Care	5
ECON135 FOUNDATIONS OF FINANCE or ECON140 INTRO TO FINANCIAL ECONOMICS	Foundations of Finance * Introduction to Financial Economics	3
ECON136 MARKET DESIGN	Market Design	5
ECON137 DECISION MODELING AND INFORMAT	Decision Modeling and Information	5
ECON146		

Applied Econometrics

To receive credit in the applied econometrics subfield, students must complete ECON 273 and either ECON 275 or ECON 276 or ECON 292 (also known as GSB MGTECON 640). Students must also complete an empirically oriented course (or set of courses). The Director of Graduate Study must approve the last requirements in consultation with the 275, 276, or 292 instructor.

Complete ALL of the following Courses:

- ECON273 - Advanced Econometrics I
- ECON275 - Economics-Based Econometrics
  OR ECON276 - Computational Econometrics
  OR ECON292 - Quantitative Methods for Empirical Research

Economic Development

Complete at least 2 of the following courses:

- ECON214 - Development Economics I
- ECON215 - Development Economics II
- ECON216 - Development Economics III

Students must develop and present a series of research ideas throughout each course. Regular attendance is required at the Development Economics workshop and the Development student workshop.

Economic History/Institutions

Complete at least 2 of the following courses:

- ECON226 - Topics in US and international economic history
- ECON227 - European Economic

ECONOMICS OF EDUCATION	Economics of Education	5
ECON147 ECONOMICS OF LABOR MARKETS	The Economics of Labor Markets	5
ECON149 MODERN FIRM THEORY & PRACTICE	The Modern Firm in Theory and Practice	5
ECON155 ENVIRONMENTAL ECONOMICS & POLI	Environmental Economics and Policy	5
ECON157 IMPERFECT COMPETITION	Imperfect Competition	5
ECON158 REGULATORY ECONOMICS	Regulatory Economics	5
ECON160 GAME THEORY	Game Theory and Economic Applications **	5
or ECON180 HONORS GAME THEORY	Honors Game Theory**	
ECON165 INTERNATIONAL FINANCE	International Finance	5
ECON166 INTERNATIONAL TRADE	International Trade	5
ECON178 BEHAVIORAL ECONOMICS	Behavioral Economics	5
ECON179 EXPERIMENTAL ECONOMICS	Experimental Economics	5
ECON198 JUNIOR HONORS SEMINAR	Junior Honors Seminar	5
ECON202 MICROECONOMICS I	Microeconomics I ***	2-5
ECON210 MACROECONOMICS I	Macroeconomics I ***	2-5
Electives		**5**
Select from: Any ECON courses offered for letter grades		
Total Units		**35**

Students may not count units from both courses

History
- ECON228 - Institutions and Organizations in Historical Perspective
- ECON229 - Topics in Economic History

A research proposal presentation is required at the end of the second year. Regular attendance (at least four quarters) at the economic history workshop is required.

Environmental, Resource, and Energy Economics

Complete ALL of the following Courses:
- ECON250 - Environmental Economics
- ECON251 - Natural Resource and Energy Economics

Finance

Complete at least 2 of the following courses:
- ECON236 - Financial Economics I
- ECON237 - Heterogeneity in Macroeconomics
- FINANCE622 - Dynamic Asset Pricing Theory
- FINANCE624 - Corporate Finance Theory
- FINANCE625 - Empirical Asset Pricing

Industrial Organization

Complete ALL of the following Courses:
- ECON257 - Industrial Organization 1
- ECON258 - Industrial Organization IIA

NOTE: ECON251 can substitute for ECON258 only, as long as the student is not also using ECON 251 to fulfill requirements for the Environmental field. Students who select

^	towards their minor as the courses are too similar in content.
**	Students may not count units from both courses towards their minor as the courses cover similar subject matter.
***	Students may enroll with the permission of the Director of Undergraduate Studies and the course instructor.

Program Policies

External Credit Policies

Students scoring a five on the advanced placement microeconomics and advanced placement macroeconomics exam may petition the Director of Undergraduate Studies to waive the ECON1 PRINCIPLES OF ECONOMICS Principles of Economics course requirement. Students do not receive unit credit for placing out of ECON1 PRINCIPLES OF ECONOMICS Principles of Economics and must make up the five units with another economics course taken for a letter grade.

To use transfer credit in partial satisfaction of the requirements, the student must obtain written consent from the department's Director of Undergraduate Study, who establishes the amount of credit to be granted toward the department requirements (see the Information Book for Undergraduate Economics Majors). Students must have completed all Stanford prerequisites for approved transfer credit courses to use those courses toward the Economics major. See the department's Transfer Credit website for additional information.

Course prerequisites are enforced. Students taking courses to satisfy prerequisites in another department or institution must petition for Stanford course substitution or transfer credit approval to satisfy course prerequisites.

Learning Outcomes

Program Learning Outcomes

The minor in Economics has three main goals:

- to acquaint students with the rudiments of micro

Industrial Organization as a primary focus are expected also to take ECON260.

International Trade and Finance

Those interested in an International Trade concentration should take, at a minimum, 266 and one of 268 and 269; those interested in an International Finance concentration should take, at a minimum, 268 and 269. Students are expected to develop and present a research proposal in each course. The goal is to develop a good research idea that could lead to a second-year paper.

Complete at least 2 of the following courses:

- ECON266 - International Trade I
- ECON268 - International Finance and Exchange Rates
- ECON269 - International Finance and Exchange Rates II

NOTE: Students must pass all courses with a grade of B or better. With instructor approval, students can substitute another macroeconomics class for 268 or 269.

Labor Economics

Complete at least 2 of the following courses:

- ECON246 - Labor Economics I
- ECON247 - Labor Economics II
- ECON248 - Labor Economics III

NOTE: Students must pass all courses with a grade of B or better. With instructor approval, students can substitute another macroeconomics class for 268 or 269.

Macroeconomics

Complete at least 2 of the following courses:

- ECON233 - Advanced Macroeconomics I
- ECON234 - Advanced Macroeconomics II

and macroeconomic theory
- to allow students to build basic competence in the application of this theory to two fields of economics of their choosing
- the opportunity to specialize further in any one of these fields by taking one additional advanced course in the Department of Economics.

Macroeconomics II
- ECON235 - Advanced Macroeconomics III
- ECON236 - Financial Economics I
- ECON237 - Heterogeneity in Macroeconomics

A research proposal presentation in each course is required. ECON 236 and 237 may not be double-counted toward both the macroeconomics and the finance field.

Market Design

Complete at least 2 of the following courses:
- ECON283 - Theory and Practice of Auction Market Design
- ECON284 - Simplicity and Complexity in Economic Theory
- ECON285 - Matching and Market Design
- ECON287 - Topics in Market Design
- ECON289 - Advanced Topics in Game Theory and Information Economics

Microeconomic Theory

Complete at least 2 of the following courses:
- ECON282 - Contracts, Information, and Incentives
- ECON286 - Game Theory and Economic Applications
- ECON291 - Social and Economic Networks

Political Economy

Complete these courses for a grade of B or better.

Complete ALL of the following Courses:
- ECON220 - Political Economy I
- ECON221 - Political Economy II

Students may petition to substitute Econ 221 for a comparable course in the political

science department.

Public Economics

Complete at least 2 of the following courses:

- ECON241 - Public Economics I
- ECON242 - Public Economics II
- ECON243 - Public Economics III

Regular attendance at the Public Economics workshop is required for students in their third year or above to receive credit for the field.

Distribution Requirement

Students must complete four other graduate-level courses meeting the following requirements:

- At least one course from the area of economic history, unless history is one of the two fields of specialization.
- Courses in at least two fields other than the two fields of specialization. Distribution courses cannot be cross-listed in those fields.
- With advance approval of the Director of Graduate Study, some of these distribution courses may be drawn from related fields taught in other departments. However, no more than two courses in total may be taken outside the Economics department, including courses to meet the specialization or distribution requirements.
- All courses used to fulfill distribution requirements must be passed with a grade of B or better.

Seminar

- **Third-Year Seminar:** presentation of an expanded research paper in spring quarter of the third year.
- **Seminar Participation:** Each student is expected to participate in at least two all-

year research seminars or six quarters of the same field seminar by the end of the fourth year of residence. Usually, participation in a seminar requires one or more oral presentations and the submission of a research paper (which, however, need not be completely separate from dissertation research). Detailed information on fulfilling the seminar requirements can be found on the Economics department website.

Additional Comments:

Teaching Requirement
Type
Completion Requirement

Additional Comments:
TEACHING EXPERIENCE

Each student must serve as a teaching assistant for at least one quarter. It is strongly recommended that this requirement be satisfied before the fourth year of residence.

Advancement to Candidacy
Type
Completion Requirement

Additional Comments:

1. Complete the Graduate Core courses unless a waiver has been received for one or more of the courses.
2. Completing the requirements in two additional advanced fields of specialization or, if approved in advance by the Director of Graduate Study, in one such field with a substantial amount of work toward a second field taught in a related department (e.g., GSB Finance). Students may request permission from the Director of Graduate Study to create a field not listed as an advanced field below, such as International Finance or Law & Economics. Requirements for completing a field can usually be satisfied by completing two courses and a paper. However, students in

some fields may be advised to add a third course, which can be counted toward the distribution requirement discussed later. A minimum grade average of B is required to pass a field sequence. Individual course grades cannot be less than a B- to count for field course credit. Specific requirements for completing each field can be found on the Economics department website.

3. Completing a candidacy paper, better known as the second-year paper. This paper should demonstrate good scholarship and argumentative rigor and be a polished piece of writing. The second-year paper need not bear any specific relationship to the dissertation. It may be a version of a prospective dissertation chapter, but this is not required. Second year PhD students will be considered for admission to PhD candidacy if, by August 31, they submit a first draft (or, equivalently, a slide deck) of their 2nd year paper, together with an email from their 2nd year paper advisor - attesting that the student is making significant progress toward completing the 2nd year paper. The draft/slide deck should be at a significant stage of development that all the elements of the future second-year paper are clearly identifiable (motivation, contribution, research strategy, results, next steps, etc.). The GSC uses the second-year advisor's approval of this draft to evaluate the admission of the student to candidacy, an important milestone.

Final submission: By the first day of autumn quarter of the third year, and as a formal requirement for enrolling in the 3rd year seminar, students must submit the final draft of their second-year paper to their advisor and the Assistant Director of Student Services by email. A satisfactory presentation of this paper is required in the autumn quarter third-year seminar.

4. Once it is deemed that the above standards have been met, the student should complete the Application for Candidacy for Degree of Doctor of Philosophy. After a student fulfills

Doctor of Philosophy. After a student fulfills the department prerequisites for applying for candidacy and submits their candidacy application form, the faculty votes to determine whether the student has the potential to complete the requirements of the degree program successfully. If approved, the candidacy remains valid for five years (although it can be terminated earlier by the department if progress is deficient); it can be renewed or extended beyond this period only under unusual circumstances. Failure to advance to candidacy results in dismissal from the program.

5. Optional: Upon completing the above requirements, request the master's degree 'on the way to the PhD' by the first day of spring quarter or any other registered quarter following this time, if desired. To initiate this request for the master's degree, submit the Graduate Authorization Petition form via Axess and submit the Program Proposal for a Masters degree form to the Assistant Director of Student Services.

Dissertation
Type
Completion Requirement

Additional Comments:
PH.D DISSERTATION

The process involves selecting a topic, choosing an appropriate advisor, submitting a prospectus (signed by the advisor) outlining the proposed research, establishing a three-member reading committee (usually all from the Department of Economics, although exceptions can be made under certain circumstances), passing the University Oral Examination at which these three faculty (and two other members of the Academic Council) ask questions about the completed research, and submitting a final draft of the work signed by all members of the reading committee. The student is advised to initiate this process as early as possible.

Optional: Master's Degree "on the way to the Ph.D"

- Upon completing the above requirements, request the master's degree ‘on the way to the PhD' by the first day of spring quarter, or during any other registered quarter following this time, if desired. To initiate this request for the master’s degree, submit the Graduate Authorization Petition form via Axess and submit the Program Proposal for a Master's degree form to the student service officer.

Program Policies

External Credit Policies

Students who completed graduate coursework at another institution are strongly encouraged or required to transfer course units in the winter quarter of their first year of doctoral study. The Director of Graduate Studies will evaluate the transfer of units on a course-by-course basis. Graduate work accepted for transfer of residency does not automatically exempt a student from having to complete a course requirement for the degree. University policies related to the transfer of credit for graduate work done elsewhere are in G.AP 3.2.1 Residency Policy for Graduate Students*.*

Advising Expectations

See Graduate Advising for a statement of university policy on graduate advising.

The Department of Economics is committed to academic advising to support graduate students’ scholarly and professional development. When most effective, this advising relationship entails collaborative and sustained engagement by the advisor and the advisee. As a best practice, advising expectations should be periodically discussed and reviewed to ensure mutual understanding. Both the advisor and the advisee are expected to maintain professionalism and integrity.

Faculty advisors guide students in critical areas such as selecting courses, designing and conducting research, developing teaching pedagogy, navigating policies and degree requirements, and exploring academic opportunities and professional pathways.

Graduate students are active contributors to the advising relationship, proactively seeking academic and professional guidance and taking responsibility for informing themselves of policies and degree requirements for their graduate program. Outlined below is a list of specific responsibilities of the various advising relationships, year by year:

First Year

First-year students are assigned to an advisor in groups of four or five students, so there are only a handful of first-year advisors. First-year advisors meet with students early in autumn quarter and offer to help with any questions as the year progresses. Students have various information sources, including the DGS, PhD administrator, student mentors, study groups, core course instructors, and the first-year seminar series. The advisor is another person the students can turn to for basic and broad advice about the program.

Second-Year RAship

The second-year RA-ship is an opportunity for students to gain experience with research. Students are centrally matched with a second-year mentor. The department subsidizes the RA-ship and averages 15 hours/week (rather than the 20 for standard RAships in later years) for the entire second year (and surrounding summers). Students are advised to ensure that it is as educational as possible. Some students have fellowships and thus do not need RA support, but they should still seek advisors and be given the same attention to ensure their research is progressing.

Second-Year Paper

The second-year paper is due by August 31 of the second summer, and students have to arrange with a faculty member to oversee that paper by the end of spring quarter of the second year.

An advisor on a second-year paper should make sure that the student is progressing on the paper during the summer by setting a timeline and meeting with them at critical points. This must be finished on time so students can move on to new projects or further develop it during the third year. Students are encouraged to talk to multiple faculty, but the person who signs their paper should take responsibility. The

student is also responsible for seeking advice and communicating regularly with their advisor about progress and unexpected setbacks, which are inevitable in research. Second-year papers can be co-authored with other students and/or faculty.

Third-Year Advising

The third-year seminar helps shepherd students through the transition to dissertation research; however, it is not a substitute for an advisor but rather a complement. Students should clear their slides for their third-year presentations with their advisors before the presentations.

The advisor and student are responsible for ensuring that they meet regularly and have set a clear timeline and goals for their research.

At the end of the third year, students meet with the DGS and present a form signed by someone agreeing to advise their dissertation research, and they should have plans for a dissertation and a dissertation reading committee. If a faculty member is advising a student during the third year and does not plan to continue that relationship, the faculty member is responsible for informing the student early enough so that s/he can find a new advisor going forward. Occasionally, students getting substantial advice from more than one person may wish to designate co-primary advisors. This involves a serious commitment in terms of time and attention from the primary advisors and should involve more than window-dressing.

Fourth Year and Beyond

Advisors and students should meet regularly and have a clear plan and timeline for completing dissertation research and going on the market. The advisor's role includes guiding, designing, implementing, conducting, writing, presenting, submitting (where, how, etc.), and revising their research. The advisor should meet regularly with the student and inform the DGS if they are languishing or falling behind in their research.

Advisors should be very clear with students about how their research is progressing and what they need to do to improve. Students are responsible for being broadly engaged, keeping their advisor regularly informed of their progress, seeking advice from several faculty,

attending and participating in conferences, regularly attending seminars, talking with other students, and, more generally, being regularly involved in research-related activities.

Faculty on a student's dissertation committee must discuss the student's job market prospects with them well before the job market. It is essential to calibrate students' expectations appropriately. If the student aspires to jobs for which a committee member feels s/he cannot write supportive letters, that faculty must make that fact absolutely clear to the student well in advance. The faculty member must also confer with other committee members to determine whether they agree the student's progress, job market plans, and likely prospects. A dissertation committee member whose assessment of a student is out of line with the rest of the committee has an obligation to make their views known to the committee well before the student enters the job market and should be willing to withdraw from the committee if it is in the student's best interest. At the latest, Committee members should compare their assessments by the start of autumn quarter, during which the student enters the job market.

Students need to become self-sufficient; most of these aspects of conducting and disseminating research are not learned via courses or readings but by doing coupled with timely advice. It is the most important and rewarding part of the PhD program.

Learning Outcomes

Program Learning Outcomes

The PhD is conferred upon candidates who have demonstrated substantial scholarship and the ability to conduct independent research and analysis in Economics. Through completion of advanced coursework and rigorous skills training, the doctoral program prepares students to make original contributions to the knowledge of Economics and interpret and present research results.

Overview

Program Overview

The department’s purpose is to acquaint students with the economic aspects of modern society, to familiarize them with techniques for analyzing contemporary economic problems, and to develop an ability to exercise judgment in evaluating public policy. There is training for the general student and those who plan careers as economists in civil service, private enterprise, teaching, or research.

The department’s curriculum is an integral part of Stanford's International Relations, Public Policy, and Urban Studies programs.

The faculty interests and research cover a broad spectrum of topics in most fields of economics, including behavioral economics, comparative institutional analysis, econometrics, economic development, economic history, experimental economics, industrial organization, international trade, labor, macro- and microeconomic theory, mathematical economics, environmental economics, and public finance.

Simple Requisites

Core Program Requirements

Type

Completion Requirement

Additional Comments:

The minimum university requirement for a PhD minor is 20 units of coursework at the graduate level (courses numbered 200 and above) at Stanford. Units taken for the minor can be counted as part of the overall requirement for the PhD of 135 units done at Stanford. Courses used for a minor may not be used to meet the requirements for a master’s degree.

To be recommended for the PhD degree with Economics as a minor subject, a student must qualify in three fields of economics, at least one of which must be in the core economics sequence (microeconomics, macroeconomics, or econometrics). The standard of achievement in these fields is the same for minor as for major candidates - typically two courses per field (often with a paper requirement) and passing the exams in

the core field(s). A list of fields, field requirements, and courses that satisfy the field requirements can be found in Graduate Degree Program Requirements.

The major and minor departments must approve a PhD minor form outlining the program of study.

Program Policies

External Credit Policies

Per policy (GAP 4.5.1 Doctoral Degrees, Requirements), all of the coursework for a Ph.D. minor must be completed at Stanford.

Learning Outcomes

Program Learning Outcomes

The purpose of the PhD minor program is to develop knowledge and skills in Economics and to prepare students for a professional career. This is achieved through completion of courses, in the primary field as well as related areas, and experience with independent work and specialization. Through completion of advanced course work and rigorous skills training, the doctoral program prepares students to make original contributions to the knowledge of Economics and to interpret and present the results of such research.

Courses

Course Description

This is an introductory course in economics. We will cover both microeconomics (investigating decisions by individuals and firms) and macroeconomics (examining the economy as a whole). The primary goal is to develop and then build on your understanding of the analytical tools and approaches used by economists. This will help you to interpret economic news and economic data at a much deeper level while also forming your own opinions on economic issues. The course will also provide a strong foundation for those

Course Description

Seminar in applied economics with focus on the microcosm of Silicon Valley, how growth companies are originated, managed and financed from start-up to IPO. Round-table discussion format. Applicable to those students with an interest in technology company formation, growth and finance including interaction with Wall Street. Enrollment limited to 10 juniors, seniors and co-term students. Application found at https://economics.stanford.edu/undergraduate/forms

Grading Basis

of you who want to continue on with intermediate microeconomics and/or intermediate macroeconomics and possibly beyond.

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	15

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing

RSN - Satisfactory/No Credit

Units

Min	Max
1	1

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Value
1

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	1

Code	Course Component
SEM	Seminar

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	10

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing

1

1

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	999
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

This course has been **Does this course satisfy**

approved for the following WAYS	the University Language Requirement?
Social Inquiry (SI)	No

Course Description
Capstone and writing in the major course open to Econ majors only. Economic policy analysis, writing and oral presentations will be large components of this course. Students may also complete group projects that include empirical economic analysis focused on a specific topic. The goal of this course is to enable students to utilize the skills they have acquired throughout their time in the major. Section topics vary by instructor. Enrollment limited to application at the start of each school year with student placement notifications before the term starts. Permission numbers will be provided to students. Limited to students applying to graduate in 2023-24. Prerequisites: Econ 51 and 52, 102B, and two field courses. Enrollment by application: https://economics.stanford.edu/forms.

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Course Description
Probabilistic modeling and statistical techniques relevant for economics. Concepts include: probability trees, conditional probability, random variables, discrete and continuous distributions, correlation, central limit theorems, point estimation, hypothesis testing and confidence intervals for both one and two populations. Prerequisite: MATH 20 or equivalent.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree	Total Units Allowed for Degree

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Credit	Credit
1	5

Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
2

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	150

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use

No Yes

Attendance Type
Meeting

Present Use
No

Reason Use
No

Tardy Use
No

Left Use
No

Contact Use
No

Time Use
No

Template Override
No

Exam Seat Spacing
1

Simple Requisites

ECON101 Prerequisite
Type
Prerequisite

Fulfill ALL of the following requirements:

Complete ALL of the following Courses:
- ECON51 - Economic Analysis II
- ECON52 - Economic Analysis III
- ECON102B - Applied Econometrics

Complete at least 2 of the following courses:
- ECON102C - Advanced Topics in Econometrics
- ECON111 - Money and Banking
- ECON112 - Financial Markets and Institutions: Recent Developments
- ECON118 - Development Economics
- ECON126 - Economics of Health and Medical Care
- BIOMEDIN156 - Economics of Health and Medical Care
- BIOMEDIN256 - Economics of Health and Medical Care

No

No

Time Use
No

Template Override
No

Exam Seat Spacing
2

Simple Requisites

ECON102A Prerequisite
Type
Prerequisite

Complete at least 1 of the following courses:
- MATH20 - Calculus
- MATH21 - Calculus
- MATH51 - Linear Algebra, Multivariable Calculus, and Modern Applications

Additional Comments:

This course has been approved for the following WAYS
Applied Quantitative Reasoning (AQR), Social Inquiry (SI)

Does this course satisfy the University Language Requirement?
No

- HRP256 - Economics of Health and Medical Care
- ECON135 - Foundations of Finance
- ECON136 - Market Design
- ECON137 - Decision Modeling and Information
- ECON140 - Introduction to Financial Economics
- ECON141 - Public Finance and Fiscal Policy (Inactive)
- PUBLPOL107 - Public Finance and Fiscal Policy (Inactive)
- ECON144 - Family and Society
- ECON145 - Labor Economics
- ECON146 - Economics of Education
- ECON147 - The Economics of Labor Markets
- ECON149 - The Modern Firm in Theory and Practice
- ECON155 - Environmental Economics and Policy
- ECON157 - Imperfect Competition
- ECON158 - Regulatory Economics
- ECON160 - Game Theory and Economic Applications
- ECON165 - International Finance
- ECON166 - International Trade
- ECON179 - Experimental Economics
- ECON180 - Honors Game Theory
- ECON182 - Honors Market Design
- ECON125 - Economic Development, Microfinance, and Social Networks
- ECON178 - Behavioral Economics
- ECON198 - Junior Honors Seminar
- PUBLPOL197 - Junior Honors Seminar
- ECON199D - Honors Thesis Research
- ECON202 - Microeconomics I
- ECON210 - Macroeconomics I

Additional Comments:

This course has been approved for the

Does this course satisfy the University Language

following WAYS	Requirement?
Social Inquiry (SI)	No

Course Description
Hypothesis tests and confidence intervals for population variances, chi-squared goodness-of-fit tests, hypothesis tests for independence, simple linear regression model, testing regression parameters, prediction, multiple regression, omitted variable bias, multicollinearity, F-tests, regression with indicator random variables, simultaneous equation models and instrumental variables. Topics vary slightly depending on the quarter. Prerequisites: Econ 102A or equivalent. Recommended: computer experience (course often uses STATA software to run regressions).

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	25

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use

Course Description
This is an advanced econometrics class targeted to students who want to go deeper into and/or expand their knowledge of topics firstly learned in Econ 102B (or equivalent class). Topics include: Instrumental variables estimation; Panel data models (fixed and random effect models, dynamic panel data models); Limited dependent variable models (probit, logit, Tobit) and selection models; models for Duration data; Bootstrap and Estimation by Simulation. Applications from Labor Economics and Public Finance will be used to motivate the discussion. Prerequisite: Econ 102B

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use

Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	150

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use

Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use

No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Simple Requisites

ECON102B Prerequisite
Type
Prerequisite

Complete at least 1 of the following courses:
- ECON102A - Introduction to Statistical Methods (Postcalculus) for Social Scientists
- CS109 - Introduction to Probability for Computer Scientists
- CME106 - Introduction to Probability and Statistics for Engineers
- STATS116 - Theory of Probability
- MS&E120 - Introduction to Probability

Additional Comments:

This course has been approved for the following WAYS	**Does this course satisfy the University Language Requirement?**
Social Inquiry (SI), Applied Quantitative Reasoning (AQR)	No

Course Description
This course focuses on the use of econometric methods in public policy analysis and business decision-making. Building on methods taught in Economics 102A and 102B, additional descriptive, predictive and causal econometric modeling methods

No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Simple Requisites

ECON102C Prerequisite
Type
Prerequisite

Complete ALL of the following Courses:
- ECON102B - Applied Econometrics

Additional Comments:

This course has been approved for the following WAYS	**Does this course satisfy the University Language Requirement?**
Social Inquiry (SI), Applied Quantitative Reasoning (AQR)	No

Course Description
The objective of the course is to introduce you to time series analysis and forecasting methods. Students will master a mix of theoretical and applied econometrics techniques used in macroeconomic and financial applications. Topics to be covered potentially include

will be introduced along with the assumptions required for the validity of each methodology. Methods for designing randomized controlled trials (RCT) and analyzing the resulting data will be discussed. The methods for recovering economically meaningful magnitudes such as price elasticities of demand and other behavioral responses from observational data will be discussed. Both classical econometric methods and modern techniques in machine learning will be employed. The class will be taught using the R programming language. Students will perform both in-class and out-of-class assignments working with actual datasets to address policy-relevant decisions and simulation exercises designed to deepen their knowledge of these methods. Prerequisites: Econ102A, Econ102B

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	Remote Synchronous

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use

but are not limited to: regression from a predictive viewpoint; forecasting trends and seasonality; exponential smoothing models; ARMA models; stochastic trends, unit roots, and cointegration; structural breaks; point, interval and density forecasts; forecast evaluation and combination; vector autoregression including impulse-response estimation and analysis; dynamic factor models; volatility forecasting using GARCH models; conditional forecasting models and scenario analysis. The course emphasizes hands-on experience, and all students will acquire knowledge of the programming language R in the context of time series models and forecasting. Prerequisites: ECON 102B. Students with a strong background in Statistics may reach out to the Economics Undergraduate office for permission to enroll.

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	18

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use

Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	Remote Synchronous

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Type	Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	18

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason

Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Simple Requisites

ECON102D Prerequisite
Type
Prerequisite

Complete ALL of the following Courses:
- ECON102B - Applied Econometrics

Additional Comments:

This course has been approved for the following WAYS
Applied Quantitative Reasoning (AQR)

Does this course satisfy the University Language Requirement?
No

Course Description
The World Food Economy is a survey course that covers the economic and political dimensions of food production, consumption, and trade. The course focuses on food markets and food policy within a global context. It is comprised of three major sections: structural features (agronomic, technological, and economic) that determine the nature of domestic food systems; the role of domestic food and agricultural policies in international markets; and the integrating forces of international research, trade, and food aid in the world food economy. This 5-unit course entails a substantial group modeling project that is required for all students. Enrollment is by application only. The application is found at

Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Simple Requisites

ECON105 Prerequisite
Type
Prerequisite

ECON105 Prerequisite

Complete ALL of the following Courses:
- ECON102B - Applied Econometrics

Or ECON102B Equivalent.

Additional Comments:

Course Description
This course will teach from a textbook written by a prominent economist with leading expertise in data science and machine learning. Students will be presented with statistical techniques to process big data for making business and economics decisions. Topics may include statistical uncertainty, regression, classification and factor analysis, experimentations and controls, frameworks for causal inference. We will also explore the relations between nonparametric econometrics, machine learning and artificial intelligence. The statistical package R will be used to illustrate concepts and theory. Prerequisites: Econ 102A or equivalent and Econ 102B.
Grading Basis

https://economics.stanford.edu/undergraduate/forms. Deadline: March 15, 2022.

Cross Listed Courses
EARTHSYS106 WORLD FOOD ECON, ECON206 WORLD FOOD ECON, ESS106 WORLD FOOD ECON, ESS206 WORLD FOOD ECON, EARTHSYS206 WORLD FOOD ECON

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	15

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	100

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
2

Simple Requisites

ECON108 Prerequisite

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Enrollment Optional?
No

Default Section Size
30

Final Exam
Yes

Include in Dynamic Date Calc
No

Generate Attendance
No

Auto Create
Yes

Attendance Type
Meeting

Present Use
No

Reason Use
No

Tardy Use
No

Left Use
No

Contact Use
No

Time Use	Template Override
No	No

Type
Prerequisite

ECON108 Prerequisite

Fulfill ALL of the following requirements:

ECON108 Prerequisite

Complete at least 1 of the following courses:

- ECON102A - Introduction to Statistical Methods (Postcalculus) for Social Scientists
- CS109 - Introduction to Probability for Computer Scientists
- CME106 - Introduction to Probability and Statistics for Engineers
- ENGR155C - Introduction to Probability and Statistics for Engineers
- STATS116 - Theory of Probability
- MS&E120 - Introduction to Probability

ECON108 Prerequisite

Complete at least 1 of the following courses:

- ECON102B - Applied Econometrics

Additional Comments:

Does this course satisfy the University Language Requirement?
No

Exam Seat Spacing
2

This course has been approved for the following WAYS
Social Inquiry (SI)

Does this course satisfy the University Language Requirement?
No

Course Description
The possibilities for economic measurement have been transformed through observation of the earth from satellites. In this course, we will study the array of possibilities in free and commercial imagery, and link up to applications in economic research and industry. The course will start from the physics foundations of how satellites see the earth, examine measurement opportunities at all frequencies, show research and business applications, and carry the student to the point of writing code in Julia for one small problem. Pre-requisites: ECON 1

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Code	Course Component
LBS	Lab
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	18
Final	**Include in Dynamic**

Course Description
The primary course goal is for students to master the logic, intuition and operation of a financial system - money, financial markets (money and capital markets, debt and equity markets, derivatives markets), and financial institutions and intermediaries (the Central Bank, depository institutions, credit unions, pension funds, insurance companies, venture capital firms, investment banks, mutual funds, etc.). In other words, how money/capital change hands between agents over time, directly and through institutions. Material will be both quantitative and qualitative, yet always highly analytical with a focus on active learning - there will be an approximately equal emphasis on solving mathematical finance problems (e.g. bond or option pricing) and on policy analysis (e.g. monetary policy and financial regulation.) Students will not be rewarded for memorizing and regurgitating facts, but rather for demonstrating the ability to reason with difficult problems and situations with which they might not previously be familiar. Prerequisite: Econ 50, 52. Strongly recommended but not required: some familiarity with finance and statistics (e.g. Econ 135 or 140, Econ 102A)

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Code	Course Component
DIS	Discussion
Instructor Contact Hours	**Workload Hours**
0	0

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Exam	Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	18

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create

0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	25

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
2

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode

Attendance	Create
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Simple Requisites

ECON1
Type
Prerequisite

Complete ALL of the following Courses:
- ECON1 - Principles of Economics

Additional Comments:

Hours	Mode
0	In Person
Enrollment Optional?	**Default Section Size**
No	80
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Simple Requisites

ECON111 Prerequisite
Type
Prerequisite

ECON111 Prerequisite

Complete at least 1 of the following courses:
- ECON52 - Economic Analysis III

Additional Comments:

This course has been approved for the following WAYS

Does this course satisfy the University Language Requirement?

Social Inquiry (SI)	No

Course Description
The course covers innovations, challenges and proposed changes to the financial system. Topics include new mortgage products, foreclosure rules, securitization, credit ratings, credit derivatives, dealer networks, repo financing, implications for prudential regulation & monetary policy. Emphasis is on quantitative studies of these topics. Prerequisites: Econ 52, Econ 102B.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Course Description
A thematic discussion of the economic history of the United States, with emphasis on the perspective it gives on modern-day economic and social issues. Topics will include economic growth, government intervention in the economy, economic causes and consequences of slavery, immigration, women's changing role in the economy, income inequality, and economic mobility. Prerequisite: Econ 1

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Credit	Credit
1	5

Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Code	**Course Component**
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	30
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**

Credit	Credit
1	5

Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Code	**Course Component**
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	999
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**

Yes	Yes		
Time Use	**Template Override**		
Yes	No		
Exam Seat Spacing			
2			

Yes	Yes		
Time Use	**Template Override**		
Yes	No		
Exam Seat Spacing			
2			

Simple Requisites

ECON112 Prerequisite
Type
Prerequisite

ECON 112 Prerequisite

Fulfill ALL of the following requirements:

ECON 112 Prerequisite

Complete at least 1 of the following courses:

- ECON52 - Economic Analysis III

ECON 112 Prerequisite

Complete at least 1 of the following courses:

- ECON102B - Applied Econometrics

Additional Comments:

Simple Requisites

ECON113 Prerequisite
Type
Prerequisite

Complete at least 1 of the following courses:

- ECON1 - Principles of Economics

Additional Comments:

This course has been approved for the following WAYS	Does this course satisfy the University Language Requirement?
Social Inquiry (SI)	No

Course Description
The microeconomic problems and policy concerns of less developed countries. Topics include: health and education; risk and insurance; microfinance; agriculture; technology; governance. Emphasis is on economic models and empirical evidence. Prerequisites: ECON 50, ECON 102B.

Grading Basis
ROP - Letter or Credit/No Credit

Course Description
Welfare-reform legislation passed by the federal government in the mid-1990s heralded a dramatic step in the movement that has been termed the devolution revolution, which is again being discussed in the context of healthcare reform. The centerpiece of devolution is the transfer of more responsibilities for antipoverty programs to the states. We will explore the effects of these reforms and the role that devolution plays in the ongoing debates over the designs of programs that make up America's social safety net. In addition to discussing conventional

Units		Code	Course Component
Min	Max		
		DIS	Discussion

5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	40

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact	Workload

welfare programs (e.g., Medicaid, food stamps, TANF, SSI) and other governmental policies assisting low-income families (EITC, minimum wages), we will examine the trends in governmental spending on anti-poverty programs and how our nation defines poverty and eligibility for income support. We will apply economics principles throughout to understand the effectiveness of America's antipoverty programs and their consequences on the behavior and circumstances of families. Prerequisites: A basic understanding/knowledge of introductory economics is recommended.

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
3	3

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit

Course Component	
Code	SU Intro Seminar - Freshman

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	15

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use

Hours	Hours
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	165
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

1 3

This course has been approved for the following WAYS
Social Inquiry (SI)

Use	Tardy Use
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Simple Requisites

ECON118 Prerequisite
Type
Prerequisite

Complete ALL of the following Courses:
- ECON50 - Economic Analysis I
- ECON102B - Applied Econometrics

Additional Comments:

This course has been approved for the following WAYS	Does this course satisfy the University Language Requirement?
Social Inquiry (SI), Applied Quantitative Reasoning (AQR)	No

Course Description
How will artificial intelligence and machine learning reshape the economy? This course examines the prospective impact of AI on jobs, wages, inequality, industrial power, and global competition. We begin by examining the effects of previous technological revolutions (from the Industrial Revolution to the digital age) on living standards, relative power of labor and capital, and organization of economic activity. We then review the tools and methods economists use to analyze the potential consequences of AI and machine learning. We conclude by assessing priorities for government policy, including opportunities for harnessing AI to create a more prosperous and equitable society.

Grading Basis
RSN - Satisfactory/No Credit

Units

Min	Max
1	1

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	999
Include in	

Course Description
An introduction to the study of the financial lives of households in less developed countries, focusing on savings, credit, informal insurance, the expansion of microfinance, social learning, public finance/redistribution, and social networks. Prerequisites- Econ 51 or Publpol 51 and Econ 102B.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Code	Course Component
DIS	Discussion
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	30
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance	**Present**

Value
1

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	1

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Type	Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	999

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason

Use	Tardy Use
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

Simple Requisites

ECON125 Prerequisite

Type
Prerequisite

Complete ALL of the following Courses:
- ECON51 - Economic Analysis II
- ECON102B - Applied Econometrics

Additional Comments:

This course has been approved for the following WAYS	Does this course satisfy the University Language Requirement?
Applied Quantitative Reasoning (AQR), Social Inquiry (SI)	No

Course Description
Institutional, theoretical, and empirical analysis of the problems of health and medical care. Topics: demand for medical care and medical insurance; institutions in the health sector; economics of information applied to the market for health insurance and for health care; economics of health care labor markets and health care production; and economic epidemiology. Graduate students with research interests should take ECON 249. Prerequisites: ECON 50 and either ECON 102A or STATS 116 or the equivalent. Recommended: ECON 51.

Course Description
Application of economic paradigms and empirical methods to health improvement in lower-income countries. Emphasis is on unifying analytic frameworks and evaluation of empirical evidence. How economic views differ from public health, medicine, and epidemiology; analytic paradigms for health and population change; the demand for health; the role of health in international development. Prerequisites: ECON 50 and ECON 102B.

Cross Listed Courses	Grading Basis
MED262 ECON HLTH IN	ROP - Letter or Credit/No

Cross Listed Courses
HRP256 ECON OF HEALTH & MEDICAL CARE, BIOMEDIN156 ECON OF HEALTH & MEDICAL CARE, BIOMEDIN256 ECON OF HEALTH & MEDICAL CARE

Grading Basis
MOP - Medical Option (Med-Ltr-CR/NC)

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

DEVLPING CNTRYS, HRP227 ECON HLTH IN DEVLPING CNTRYS

Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	120

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
2

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	40

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
2

This course has been approved for the following WAYS
Social Inquiry (SI)

Simple Requisites

ECON126 Prerequisite
Type
Prerequisite

Fulfill ALL of the following requirements:

Complete at least 1 of the following courses:
- ECON50 - Economic Analysis I

Complete at least 1 of the following courses:
- ECON102A - Introduction to Statistical Methods (Postcalculus) for Social Scientists
- STATS116 - Theory of Probability
- CS109 - Introduction to Probability for Computer Scientists

Additional Comments:

This course has been approved for the following WAYS
Social Inquiry (SI)

Does this course satisfy the University Language Requirement?
No

Course Description
This is a survey course of the Chinese economy with emphasis on understanding the process of economic reform, transition and development during the past 40 years. It will help students learn the different historical stages of institutional changes, develop an informed perspective on economic and political rationale and the effectiveness of the economic policies that have shaped China's economic emergence, and think critically about the process of economic and social changes. Prerequisite: Econ 1. Same as OSPBEIJ 30. Students may not earn credit for both OSPBEIJ 30 and ECON 131.
Grading Basis

Course Description
Modern economics has produced outstanding advancements in understanding and predicting economic behavior and phenomena. Despite these achievements, there is a huge gap between how economists and non-economists perceive certain aspects of the economy, society, and the world - how we communicate our findings is at the core of this problem. In this course we will explore and discuss examples of powerful economic storytelling (from the classics to modern pieces), and we will learn how storytelling can be more effective at convincing and driving people to action than purely logical economic expositions. We will learn how to craft effective

ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Course

stories, and then we will create some of our own that are not only persuasive but also based on sound economic models and data. Application required- https://forms.gle/uAAkV1WAXWeZQ52f9. Prerequisite: Econ 1

Grading Basis

RLT - Letter (ABCD/NP)

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	15

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	No

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Code	Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	40

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
SEM	Seminar

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	130

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Simple Requisites

ECON132 Prerequisite
Type
Prerequisite

Complete at least 1 of the following courses:
- ECON1 - Principles of Economics

Additional Comments:

Does this course satisfy the University Language Requirement?
No

Course Description
Why are there economic disparities across countries? Why did some countries grow steadily over the past 200 years while many others did not? What have been the consequences for the citizens of those countries? What has been the role of geography, culture, and institutions in the development process? What are the moral dilemmas behind this development process? These are some of the questions we will discuss in this course. Following a historical and cross-cultural perspective, we will study the origins of economic development and the path that led to the configuration of the modern global economy.

Cross Listed Courses
POLISCI244C WEALTH OF NATIONS

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Code	Course Component
SEM	Seminar

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Course Description
For graduate students and advanced undergraduates. This course teaches the foundations of finance. Topics include internal rate of return and net present value, Black-Scholes option pricing, portfolio diversification and the Capital Asset Pricing Model, relationships between risk and return, market efficiency, and the valuation of derivative securities. Much of the analysis will build on the Arrow-DeBreu state preference model. Next, adverse selection and moral hazard in contracting and the design of auctions will be discussed. Towards the end of the course applied topics such as bank capital regulation, sovereign debt, pension funds, university endowments, and the evaluation of private equity performance and fees will be discussed, depending on time. Prerequisites: MATH 51, ECON 50, ECON 102A, or equivalents or with permission of the instructor; ability to use spreadsheets, and basic probability and statistics concepts including random variables, expected value, variance, covariance, and simple estimation and regression.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	3

Code	Course Component
	Case/Problem

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

This course has been approved for the following WAYS
Social Inquiry (SI)

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	3

CAS Study

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	40

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
2

Code	Course Component
DIS	Discussion

Instructor Contact **Workload**

Hours 0	**Hours** 0
OEE Workload Hours 0	**Instruction Mode** In Person
Enrollment Optional? Yes	**Default Section Size** 30
Final Exam No	**Include in Dynamic Date Calc** No
Generate Attendance No	**Auto Create** Yes
Attendance Type Meeting	**Present Use** Yes
Reason Use Yes	**Tardy Use** Yes
Left Use Yes	**Contact Use** Yes
Time Use Yes	**Template Override** No
Exam Seat Spacing 1	

Does this course satisfy the University Language Requirement?
No

Course Description
Use of economic theory and analysis to design allocation mechanisms and market institutions. Course focuses on three areas: the design of matching

Course Description
Effective decision models consider a decision maker's alternatives, information and preferences. The construction of such models in single-party situations

algorithms to solve assignment problems, with applications to school choice, entry-level labor markets, and kidney exchanges; the design of auctions to solve general resource allocation problems, with applications to the sale of natural resources, financial assets, radio spectrum, and advertising; and the design of platforms and exchanges, with applications to internet markets. Emphasis on connecting economic theory to practical applications. Students must write term paper.

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use

with emphasis on the role of information. The course then evolves to two-party decision situations where one party has more information than the other. Models examined include: bidding exercises and the winner's curse, the Akerlof Model and adverse selection, the Principal-Agent model and risk sharing, moral hazard and contract design. Prerequisite: ECON 102A or equivalent. Recommended: Econ 50, Optimization and simulation in Excel.

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	40

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	75

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	40

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Yes No

Exam Seat Spacing
2

This course has been approved for the following WAYS
Formal Reasoning (FR)

Does this course satisfy the University Language Requirement?
No

Exam Seat Spacing
2

Simple Requisites

ECON137 Prerequisite
Type
Prerequisite

Complete at least 1 of the following courses:
- ECON102A - Introduction to Statistical Methods (Postcalculus) for Social Scientists

Additional Comments:

This course has been approved for the following WAYS
Formal Reasoning (FR), Applied Quantitative Reasoning (AQR)

Does this course satisfy the University Language Requirement?
No

Course Description
May be repeated for credit.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
1	10

Contact Hours

Value
0

Academic Progress Hours

Value
1

Course Component

Code Individual Study
INS

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
Independent Studies

Default Enrollment Section

Course Description
In nearly all polls, American voters rank the economy as one of their most important concerns. In the presidential election, full debates are dedicated to questions of economic policy. In this course, we will delve deeply into economic policy issues to understand options for government intervention and possible outcomes. Focus will be on the economic issues, not on the political aspects of the campaign. Specific areas of interest will be taxation, budget, entitlement programs, economic regulation and competition policy, trade, demography, income inequality, and monetary policy. We expect to incorporate timely and salient economic issues as they arise during the course of the campaign. The course will include four days of meetings in Washington, DC with economic policy analysts. Students will be expected to write a short paper and make an oral presentation to the class. A wide range of topics will

Financial Aid Hours

Value
1

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

Optional?	Size
No	999

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

be acceptable, including those directly related to campaign issues as well as other long-term economic issues facing the country. Sophomore College course, applications required by deadline April 5, 2016. Apply at http://soco.stanford.edu.

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
2	2

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	2

Code	Course Component
SCS	Sophomore College Seminar

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	15

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override

Yes	No

Exam Seat Spacing
1

Course Description
What causes financial crises? What are the keys to anticipating, preventing, and managing disruptions in the global financial system? This course prepares students to navigate future episodes as policymakers, finance professionals, and citizens by going inside the practical decisions made in an unfolding crisis, from the U.S. government and IMF to the boardroom and trading floor. Students will learn warning signs of distress; market structures that govern crisis dynamics; strategic interactions among the key actors; and lessons learned for creating a more resilient system. Concepts will be applied to real-world experiences in emerging market crises, the U.S. housing and global financial crisis, the European sovereign crisis, and as well the extraordinary fiscal and central bank responses to the COVID-19 crisis.

Cross Listed Courses
PUBLPOL14 NAVIGATING FINANCIAL CRISES

Grading Basis
RSN - Satisfactory/No Credit

Units

Min	Max
1	1

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Value
5

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	999

Include in Dynamic Date Calc

Course Description
Modern portfolio theory and corporate finance. Topics: present value and discounting, interest rates and yield to maturity, various financial instruments including financial futures, mutual funds, the efficient market theory, basic asset pricing theory, the capital asset pricing model, and models for pricing options and other contingent claims. Use of derivatives for hedging. Prerequisites: ECON 50, ECON 102A.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use

Value
1

Course Count	Course Repeatable for Degree Credit?
1	No
Total Completions Allowed for Degree Credit	**Total Units Allowed for Degree Credit**
1	1

Final Exam	Include in Dynamic Date Calc
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	110
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**

No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Simple Requisites

ECON140 Prerequisite

Type

Prerequisite

Fulfill ALL of the following requirements:

Complete at least 1 of the following courses:

- ECON50 - Economic Analysis I

Complete at least 1 of the following courses:

- ECON102A - Introduction to Statistical Methods (Postcalculus) for Social Scientists
- CS109 - Introduction to Probability for Computer Scientists
- CME106 - Introduction to Probability and Statistics for Engineers
- ENGR155C - Introduction to Probability and Statistics for Engineers
- STATS116 - Theory of Probability
- MS&E120 - Introduction to Probability

Additional Comments:

This course has been approved for the	**Does this course satisfy the University Language**

following WAYS	Requirement?
Social Inquiry (SI)	No

Course Description
This class provides an introduction to financial markets. We cover major financial instruments -- bonds, bank loans, equity and derivatives -- and how their prices are determined. What are the key financial institutions that lend, provide liquidity and make markets. What role does the government play through regulation, monetary policy, bailouts and other interventions during financial crises. First we teach basic principles of modern finance. Then we focus on recent developments (digital currencies provided by central banks or the private sector, climate finance.) An important component of the course are online games that we play to mimic what we see in financial markets. These games highlight the importance of heterogeneous investor beliefs, risk exposures, and market frictions for asset trading and valuation.

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	18

Final Exam	Include in Dynamic Date Calc
No	No

Course Description
As society faces major challenges, democracies and "free-market" capitalism appear to be in crisis. This interdisciplinary course will explore the complex interactions between corporations, governments, and individuals, drawing on insights from the social sciences, business, and law to understand how institutions and collective actions translate to a set of rules and to outcomes for people and nature. The course aims to help students become savvier in their interactions with our economic and political systems and understand the governance issues that are critical to whether and how well institutions in the private and public sectors serve us. Topics include financial decisions, financial markets, banks and institutional investors; corporations and corporate governance; political economy and the rule of law as it applies to people and to organizations, and the role and functioning of the media. We will connect the material to specific issues such as climate change and justice, and discuss current events regularly throughout the course. Students will have the opportunity to explore a situation of their choosing in more depth through group final projects. Visitors with relevant experiences will regularly enrich our class discussion.

Cross Listed Courses
SUSTAIN143 FINANCE, CORPORATIONS, SOC, PUBLPOL143 FINANCE, CORPORATIONS, SOC, POLISCI127A FINANCE, CORPORATIONS, SOC, INTLPOL227 FINANCE, CORPORATIONS, SOC

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
4	5

Course Code	Course Component
DIS	Discussion

Contact Hours

Instructor Contact	Workload

Course Count	Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	18

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Value
0

Academic Progress Hours

Value
4

Financial Aid Hours

Value
4

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	18

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE

Attendance Type	Present Use
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Simple Requisites

ECON 141 Prerequisite
Type
Completion Requirement

ECON 141 Prerequisite

Complete ALL of the following Courses:

- ECON102B - Applied Econometrics

Additional Comments:

Workload Hours	Instruction Mode
0	In Person
Enrollment Optional?	**Default Section Size**
No	72
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Course Description
The family into which a child is born plays a powerful role in determining lifetime opportunities. This course will apply tools from economics and related social sciences to study how the functioning of families is shaped by laws, social insurance, social norms, and technology. Topics will include intergenerational transmission of wealth and health, the importance of

Course Description
Analysis and description of labor markets. Determination of employment, hours of work, and wages. Wage differentials. Earnings inequality. Trade unions and worker co-operatives. Historical and international comparisons.. Prerequisites: ECON 51 (Public Policy majors may take PUBLPOL 51 as a substitute for ECON 51). ECON 102B

transmission of wealth and health, the importance of the early family environment, partnership formation, cohabitation and marriage, teen pregnancy and contraception, assisted reproduction, Tiger Moms and Helicopter Parenting, and the employment effects of parenthood. In the context of these topics, the course will cover social science empirical methods, including regression analysis, causal inference, and quasi-experimental methods. Throughout the course, we will think critically about the role of the government and how the design of public policy targeting families affect our ability to solve some of the most important social and economic problems of our time.
Prerequisites: Econ 50

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree	Total Units Allowed for Degree

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use

substitute for ECON 51), ECON 102B.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Degree Credit	Degree Credit
1	5

Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

Code	**Course Component**
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	30
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Contact	

Code	**Course Component**
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	75
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Simple Requisites

ECON145 Prerequisite Type

Left Use	Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
2

Simple Requisites

ECON144 Prerequisite
Type
Prerequisite

Complete at least 1 of the following courses:
- ECON50 - Economic Analysis I

Additional Comments:

This course has been approved for the following WAYS
Applied Quantitative Reasoning (AQR), Social Inquiry (SI)

Does this course satisfy the University Language Requirement?
No

Course Description
How a decision to invest in education is affected by factors including ability and family background. Markets for elementary and secondary schooling; topics such as vouchers and charter schools, accountability, expenditure equalization among schools, and the teacher labor market.The market for college education emphasizing how college tuition is determined, and whether students are matched efficiently with colleges. How education affects economic growth, focusing on developing countries. Theory and empirical results. Application of economics from fields such as public economics, labor economics, macroeconomics, and industrial organization. Prerequisites: ECON 50, ECON 102B.

Grading Basis

Prerequisite

Fulfill ALL of the following requirements:

Complete at least 1 of the following courses:
- ECON51 - Economic Analysis II
- INTLPOL204A - Intermediate Microeconomics for Public Policy
- PUBLPOL50 - Intermediate Microeconomics for Public Policy
- PUBLPOL301A - Intermediate Microeconomics for Public Policy

Complete at least 1 of the following courses:
- ECON102B - Applied Econometrics

Additional Comments:

This course has been approved for the following WAYS
Social Inquiry (SI), Applied Quantitative Reasoning (AQR)

Does this course satisfy the University Language Requirement?
No

Course Description
This course will cover the economics of labor markets. Topics include: determinants of employment and unemployment; job creation and job destruction. The effects of technological change on the labor market. The effects of a universal basic income. There is a final exam. Prerequisites: ECON 51 (Public Policy majors may take PUBLPOL 51 as a substitute for ECON 51), Econ 52, Econ 102B.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Code	Course Component
LEC	Lecture

Instructor

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Course

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Instructor

Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	75

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
2

Simple Requisites

ECON147 Prerequisite
Type
Prerequisite

Fulfill ALL of the following requirements:

Complete at least 1 of the following

Code	Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	30
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

Complete at least 1 of the following courses:

- ECON51 - Economic Analysis II
- INTLPOL204A - Intermediate Microeconomics for Public Policy
- PUBLPOL50 - Intermediate Microeconomics for Public Policy
- PUBLPOL301A - Intermediate Microeconomics for Public Policy

Complete ALL of the following Courses:

- ECON102B - Applied Econometrics
- ECON52 - Economic Analysis III

Additional Comments:

This course has been approved for the following WAYS	Does this course satisfy the University Language Requirement?
Social Inquiry (SI)	No

Simple Requisites

ECON146 Prerequisite Type
Prerequisite

Complete ALL of the following Courses:

- ECON50 - Economic Analysis I
- ECON102B - Applied Econometrics

Additional Comments:

This course has been approved for the following WAYS	Does this course satisfy the University Language Requirement?
Social Inquiry (SI)	No

Course Description

Much of the world's economic activity is undertaken by corporations, the largest being more powerful than most nations. Given daunting societal challenges like climate change, inequality, and racial injustice, what objectives should corporations have? In this course, we discuss the ongoing debate about the social responsibility of corporations. We consider shareholder activism, divestments made by university endowments and other ways investors might influence corporations. We look at the ESG (environment, social, governance) movement and the potential for "impact investing" to solve problems. Throughout we focus on whether the incentives of key decision makers are aligned with desirable objectives. We will bring to class CEOs and leading investors in public and private equity, to ensure we provide a balance of theory and practice.

Cross Listed Courses	Grading Basis
PUBLPOL150 INVESTOR-SOC RESP OF BUSINESS	ROP - Letter or Credit/No Credit

Units

Min	Max
3	3

Contact Hours

Value
0

Academic

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Include in

Course Description

Examines the empirics on the economics, management and strategy of organizations (e.g. firms). Topics include the organization of firms in US and internationally. Management practices around information systems, target setting and human resources. Focus on management practices in manufacturing, but also analyze retail, hospitals and schools, plus some recent field-experiments in developing countries. Prerequisites: ECON 51 (Public Policy majors may take PUBLPOL 51 as a substitute for ECON 51), ECON 102B.

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Include in

Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	3

Hours	Mode
0	In Person

Enrollment Optional?	Default Section Size
No	50

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Final Exam	Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
2

Simple Requisites

ECON149 Prerequisite

Type
Prerequisite

Fulfill ALL of the following requirements:

Complete at least 1 of the following courses:

- ECON51 - Economic Analysis II
- INTLPOL204A - Intermediate Microeconomics for Public Policy
- PUBLPOL50 - Intermediate Microeconomics for Public Policy
- PUBLPOL301A - Intermediate Microeconomics for Public Policy

Complete at least 1 of the following courses:

- ECON102B - Applied Econometrics

Additional Comments:

This course has been approved for the following WAYS	Does this course satisfy the University Language Requirement?
Social Inquiry (SI)	No

Course Description
The title of this course is the title of one of the books that will be required summer reading. The course will introduce modern finance theory and cover a wide range of financial instruments: stocks, bonds, options, mutual funds, exchange traded funds, mortgage back securities, etc. Historical returns on different asset classes will be examined. The efficient market hypothesis and the case for and against index funds will be discussed. The course for 2015 will examine the ongoing policies to stimulate the economy, including the quantitative easing policy of the Federal Reserve. There will be coverage of global financial markets. We will try to reconcile the long-run return on stocks, bonds, and money market instruments with the capital asset pricing model. We will try to connect financial markets with the problems of the real economy including the entitlement programs. We will talk with venture capitalists, Federal Reserve officials, hedge fund and mutual fund managers, and those who manage large institutional endowments. Students will be expected to write a short paper and make an oral presentation to the class. A wide range of topics will be acceptable, including market regulation, the introduction of new financial instruments, the functioning of commodity futures markets, and evaluations of the federal government intervention in financial markets. Sophomore College Course: Application required, due noon, April 7, 2015. Apply at http://soco.stanford.edu.

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max

Course Component

Course Description
The relationship between microeconomic analysis and public policy making. How economic policy analysis is done and why political leaders regard it as useful but not definitive in making policy decisions. Economic rationales for policy interventions, methods of policy evaluation and the role of benefit-cost analysis, economic models of politics and their application to policy making, and the relationship of income distribution to policy choice. Theoretical foundations of policy making and analysis, and applications to program adoption and implementation. Prerequisites: PUBLPOL 50 or ECON 50. Students are also strongly encouraged to either complete ECON 102B prior to taking this course or take ECON 102B concurrently with this course. Undergraduate Public Policy students are required to take this class for a letter grade and enroll in this class for five units.

Cross Listed Courses	Grading Basis
PUBLPOL104 ECON & PUBLIC POLICY, PUBLPOL204 ECON & PUBLIC POLICY	ROP - Letter or Credit/No Credit

Units

Min	Max
4	5

Course Component Code	Course Component
DIS	Discussion

Contact Hours

Value
0

Academic Progress Hours

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

2	2

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	2

	Sophomore
Code	College
SCS	Seminar

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	20

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Value
4

Financial Aid Hours

Value
4

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment	Default Section

Optional?	Size
No	45
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

This course has been approved for the following WAYS

Applied Quantitative Reasoning (AQR)

Course Description

Big data can help us provide answers to fundamental social questions, from poverty and social mobility, to climate change, migration, and the spread of disease. But making sense of data requires more than just statistical techniques: it calls for models of how humans behave and interact with each other. Social data science combines the analysis of big data with social science theory. We will take a project-oriented, many models-many methods approach. This course will introduce students to a variety of models and methods used across the social sciences, including tools such as game theoretical models, network models, models of

Course Description

This 2-credit course will examine vast changes driven by innovation both from within traditional finance and from new ecosystems in fintech among others. Breathtaking advances in financial theory, big data, machine learning, artificial intelligence, computational capability, IoT, payment systems (e.g. blockchain, crypto currencies), new products (e.g. robo advising, digital lending, crowd funding, smart contracts), new trading processes (e.g. algorithmic trading, AI-driven sales & trading), and new markets (e.g. ETFs, zero-cost products), among others are changing not only how financial and non-financial firms conduct business but

diffusion and contagion, agent based models, model simulations, machine learning and causal inference. Students will apply these tools to tackle important topics in guided projects. Prerequisite is Econ 102A, Polisci 150A or equivalent.

Cross Listed Courses
POLISCI151 TACKLE QUESTIONS-SOC DATA SCI

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override

also how investors and supervisors view the players and the markets. We will discuss critical strategy, policy and legal issues, some resolved and others yet to be (e.g. failed business models, cyber challenges, financial warfare, fake news, bias problems, legal standing for cryptos). The course will feature perspectives from guest speakers including top finance executives and Silicon Valley entrepreneurs on up-to-the-minute challenges and opportunities in finance. We will discuss slowing global growth against the backdrop of ongoing intervention and wildcards in the capital markets of the U.S., Europe, Hong Kong, Singapore, China, India, Japan, the Middle East and Latin America. We will look forward at strategic opportunities and power players appearing and being dethroned in the markets to discuss who is likely to thrive ¿ and not survive ¿ in the new global financial landscape. Prerequisites: If you are an undergraduate wishing to take this course, apply by completing the course application and provide a brief bio here: https://forms.gle/9BGYr8brdYwPS8Cu8

Cross Listed Courses
PUBLPOL364 THE FUTURE OF FINANCE, ECON252 THE FUTURE OF FINANCE

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
2	2

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value

Code	Course Component
SEM	Seminar

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	40

Final	Include in Dynamic

Time Use	Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Enrollment Optional?
No

Default Section Size
999

Final Exam
No

Include in Dynamic Date Calc
No

Generate Attendance
No

Auto Create
Yes

Attendance Type
Meeting

Present Use
Yes

Reason Use
Yes

Tardy Use
Yes

Left Use
Yes

Contact Use
Yes

Time Use
Yes

Template Override
No

Exam Seat Spacing
1

2

Course Count
1

Course Repeatable for Degree Credit?
No

Total Completions Allowed for Degree Credit
1

Total Units Allowed for Degree Credit
2

Exam
No

Date Calc
No

Generate Attendance
No

Auto Create
Yes

Attendance Type
Meeting

Present Use
Yes

Reason Use
Yes

Tardy Use
Yes

Left Use
Yes

Contact Use
Yes

Time Use
Yes

Template Override
No

Exam Seat Spacing
1

Spacing
1

Simple Requisites

ECON151 Prerequisite
Type
Prerequisite

Complete at least 1 of the following courses:

- ECON102A - Introduction to Statistical Methods (Postcalculus) for Social Scientists
- CS109 - Introduction to Probability for Computer Scientists
- CME106 - Introduction to Probability and Statistics for Engineers
- ENGR155C - Introduction to Probability and Statistics for Engineers
- MS&E120 - Introduction to Probability
- POLISCI150A - Data Science for Politics
- POLISCI355A - Data Science for Politics

Additional Comments:

This course has been approved for the following WAYS
Applied Quantitative Reasoning (AQR)

Does this course satisfy the University Language Requirement?
No

Course Description
In this course, we explore the role of law in promoting social well-being (happiness). Law, among its other benefits, can serve as a mechanism to harmonize private incentives with cooperative gains, to maintain an equitable division of those gains, and to deter social defection and dystopia. Law is thus an implementation of the social contract and essential to civilization. Economic analysis of law focuses on the welfare-enhancing incentive effects of law (and of law enforcement). More generally, we study the law's role in reducing the risks of cooperation, achieved by fixing expectations of what courts or the state will do in

Course Description
Economic sources of environmental problems and alternative policies for dealing with them (technology standards, emissions taxes, and marketable pollution permits). Evaluation of policies addressing local air pollution, global climate change, and the use of renewable resources. Connections between population growth, economic output, environmental quality, sustainable development, and human welfare. Prerequisite for Undergraduates: ECON 50. May be taken concurrently with consent of the instructor.
Grading Basis
ROP - Letter or Credit/No Credit

possible futures. Prerequisite: ECON 50 or PUBLPOL 50. Final paper instead of an exam. Instructor consent required for enrollment. Please email the instructor a short statement of interest (300 words max) explaining why you would like to enroll in the course.

Cross Listed Courses
PUBLPOL206 LAW AND ECONOMICS, PUBLPOL106 LAW AND ECONOMICS

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
4	5

Contact Hours

Value
0

Academic Progress Hours

Value
4

Financial Aid Hours

Value
4

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	40

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
2

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	114

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
2

Code	Course Component

Time Use	Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Enrollment Optional?
No

Default Section Size
75

Final Exam
No

Include in Dynamic Date Calc
No

Generate Attendance
No

Auto Create
Yes

Attendance Type
Meeting

Present Use
No

Reason Use
No

Tardy Use
No

Left Use
No

Contact Use
No

Time Use
No

Template Override
No

Exam Seat Spacing

LEC	Lecture

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Enrollment Optional?
No

Default Section Size
140

Final Exam
Yes

Include in Dynamic Date Calc
No

Generate Attendance
No

Auto Create
Yes

Attendance Type
Meeting

Present Use
No

Reason Use
No

Tardy Use
No

Left Use
No

Contact Use
No

Time Use
No

Template Override
No

Exam Seat Spacing
2

Simple Requisites

ECON155 Prerequisite

Type
Prerequisite

ECON 155 Prerequisite

Exam Seat Spacing
2

Simple Requisites

ECON154 Prerequisite
Type
Prerequisite

Complete ALL of the following Courses:
- ECON50 - Economic Analysis I

Additional Comments:

This course has been approved for the following WAYS
Social Inquiry (SI)

Does this course satisfy the University Language Requirement?
No

Course Description
This is a course on how energy and environmental markets work, and the regulatory mechanisms that have been and can be used to achieve desired policy goals. Throughout the course students play the roles of electricity generators, electricity retailers, energy traders, and electricity consumers in order to gain an understanding of how energy and environmental policies (including environmental regulations and renewable energy mandates) affect the business strategy of market participants - and in turn economic and environmental outcomes. The goal of the course is to provide students with both theoretical and hands-on understanding of important energy and environmental market concepts that are critical to market functioning but not always widely appreciated. The course is useful background for private sector roles in energy production, research, management, trading, investment, and government and regulatory affairs; government positions in policymaking and regulation; research and policy functions in academia, think tanks, or consultancies; and non-profit advocacy roles related to energy and the environment. Econ 1 recommended.

Fulfill ANY of the following requirements:

Complete ALL of the following Courses:
- ECON50 - Economic Analysis I

Be a Graduate or Professional Student

Additional Comments:

This course has been approved for the following WAYS
Social Inquiry (SI)

Does this course satisfy the University Language Requirement?
No

Course Description
The interaction between firms and consumers in markets that fall outside the benchmark competitive model. How firms acquire and exploit market power. Game theory and information economics to analyze how firms interact strategically. Topics include monopoly, price discrimination, advertising, oligopoly pricing, product differentiation, collusion and cartel behavior, and anti-competitive behavior. Sources include theoretical models, real-world examples, and empirical papers. Prerequisite: ECON 51 or PUBLPOL 301A or INTLPOL 204A, and ECON 102A. ECON 102B is recommended.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Code	Course Component
DIS	Discussion

Instructor Contact Hours
0

Workload Hours
0

OEE

Cross Listed Courses
ECON256 ENERGY MARKETS AND POLICY, INTLPOL276 ENERGY MARKETS AND POLICY

Grading Basis
ROP - Letter or Credit/No Credit

Units
Min	Max
3	5

Contact Hours
Value
0

Academic Progress Hours
Value
3

Financial Aid Hours
Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	18

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Academic Progress Hours
Value
5

Financial Aid Hours
Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	30
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

Enrollment Optional?	Default Section Size
No	35
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Simple Requisites

ECON157 Prerequisite

Type

Prerequisite

Complete at least 1 of the following courses:

- ECON51 - Economic Analysis II
- INTLPOL204A - Intermediate Microeconomics for Public Policy
- PUBLPOL301A - Intermediate Microeconomics for Public Policy

Additional Comments:

This course has been **Does this course satisfy**

approved for the following WAYS
Social Inquiry (SI)

the University Language Requirement?
No

Course Description
Economics 158 examines public policies for dealing with problems arising in markets in which competitive forces are weak. The focus is on monopolies, oligopolies, cartels, and other environments where market mechanisms are unlikely to produce outcomes that benefit consumers more than the alternatives involving costly government intervention. The two main areas examined are competition policy and economic regulation. Competition policy refers to laws that define certain market behavior as illegal because it is harmful to competition or fails to provide consumer benefits that justify its costs to consumers. Economic regulation refers to policies in which government controls prices and/or decides the terms and conditions under which firms can participate in a market. A growing area of study and policy design is the introduction of market mechanisms into formerly regulated industries such as: telecommunications, electricity, airlines, railroads, postal delivery services and environmental regulation. Cross-listed with Law 1056. Prerequisites: Econ 51 or equivalent.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Code	Course Component
DIS	Discussion

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Enrollment Optional?
No

Default Section Size
999

Course Description
This course will advance students understanding of economic, legal, and political approaches to avoiding or managing the problem of global climate change. Theoretical contributions as well as empirical analyses will be considered. It will address economic issues, legal constraints, and political challenges associated with various emissions-reduction and adaptation strategies, and it will consider policy efforts at the local, national, and international levels. Specific topics include: interactions among overlapping climate policies, the strengths and weaknesses of alternative policy instruments, trade-offs among alternative policy objectives, and decision making under uncertainty. Prerequisites: Econ 50 or its equivalent.

Cross Listed Courses
EARTHSYS159 CLIMATE-CHANGE POLICY, PUBLPOL159 CLIMATE-CHANGE POLICY, ECON209 CLIMATE-CHANGE POLICY

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Code	Course Component
LEC	Lecture

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Enrollment Optional?
No

Default Section Size
999

Include in

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	35

Include in
Final Exam
Dynamic Date Calc

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
2

Final Exam	Dynamic Date Calc
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Simple Requisites

ECON158 Prerequisite
Type
Prerequisite

Complete ALL of the following Courses:
- ECON51 - Economic Analysis II

Additional Comments:

This course has been approved for the following WAYS	Does this course satisfy the University Language Requirement?
Social Inquiry (SI)	No

Course Description
The United States has long been perceived as a land of opportunity for immigrants. Yet, both in the past and today, policy makers have often expressed concerns that immigrants fail to integrate into US society and

Course Description
Introduction to game theory and its applications to economics. Topics: strategic and extensive form games, dominant strategies, Nash equilibrium, subgame-perfect equilibrium, and Bayesian

that immigrants fail to integrate into US society and lower wages for existing workers. There is an increasingly heated debate about how strict migration policy should be. This debate is rarely based on discussion of facts about immigrants assimilation. This class will review the literature on historical and contemporary migrant flows. We will tackle three major questions in the economics of immigration: whether immigrants were positively or negatively selected from their sending countries; how immigrants assimilated into the US economy and society; and what effects that immigration may have on the economy, including the effect of immigration on native employment and wages. In each case, we will present studies covering the two main eras of US immigration history, the Age of Mass Migration from Europe (1850-1920) and the recent period of renewed mass migration from Asia and Latin America. Students will participate in a final project, which could include developing their own recommendations for how to design immigration policy in the US. Prerequisite: Completion of ECON 1 in a previous quarter; concurrent enrollment in ECON 1 in Winter Quarter; or, approved ECON 1 waiver on file with the Department of Economics.

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
3	3

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
5

Code	Course Component
ISF	SU Intro Seminar - Freshman

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	20

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

subgame-perfect equilibrium, and Bayesian equilibrium. The theory is applied to repeated games, oligopoly, auctions, and bargaining with examples from economics and political science. Prerequisites: Working knowledge of calculus and basic probability theory.

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	53

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	3

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Simple Requisites

ECON15N Prerequisite
Type
Prerequisite

Complete at least 1 of the following courses:

- ECON1 - Principles of Economics

or ECON1 PRINCIPLES OF ECONOMICS can be taken concurrently

Additional Comments:

This course has been approved for the following WAYS	Does this course satisfy the University Language Requirement?
Social Inquiry (SI)	No

Exam Seat Spacing
2

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
2

This course has been approved for the following WAYS
Formal Reasoning (FR), Social Inquiry (SI)

Does this course satisfy the University Language Requirement?
No

Course Description
If, as economists argue, development can make everyone in a society better off, why do leaders fail to pursue policies that promote development? The course uses game theoretic approaches from both economics and political science to address this question. Incentive problems are at the heart of explanations for development failure. Specifically, the course focuses on a series of questions central to the development problem: Why do developing countries have weak and often counterproductive political institutions? Why is violence (civil wars, ethnic conflict, military coups) so prevalent in the developing world, and how does it interact with development? Why do developing economies fail to generate high levels of income and wealth? We study how various kinds of development traps arise, preventing development for most countries. We also explain how some countries have overcome such traps. This approach emphasizes the importance of simultaneous economic and political development as two different facets of the same developmental process. No background in game theory is required.

Cross Listed Courses
POLISCI247A GAMES DEVELOPING NATIONS PLAY, POLISCI347A GAMES DEVELOPING NATIONS PLAY

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours
0

Workload Hours
0

Contact Hours
Value

Course Description
Introduces students to the interdisciplinary intersection of data science and the social sciences through an in-depth examination of contemporary social problems. Provides a foundational skill set for solving social problems with data including quantitative analysis, modeling approaches from the social sciences and engineering, and coding skills for working directly with big data. Students will also consider the ethical dimensions of working with data and learn strategies for translating quantitative results into actionable policies and recommendations. Lectures will introduce students to the methods of data science and social science and apply these frameworks to critical 21st century challenges, including education & inequality, political polarization, and health equity & algorithmic design in the fall quarter, and social media, climate change, and school choice & segregation in the spring quarter. In-class exercises and problem sets will provide students with the opportunity to use real-world datasets to discover meaningful insights for policymakers and communities. This course is the required gateway course for the new major in Data Science & Social Systems. Preference given to Data Science & Social Systems B.A. majors and prospective majors. Course material and presentation will be at an introductory level. Enrollment and participation in one discussion section is required. Sign up for the discussion section will occur on Canvas at the start of the quarter. Prerequisites: CS106A (required), DATASCI 112 (recommended as pre or corequisite). Limited enrollment. Please complete the interest form here: https://forms.gle/8ui9RPgzxjGxJ9k29. A permission code will be given to admitted students to register for the class.

Cross Listed Courses

Grading Basis

0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
SEM	Seminar

Instructor Contact Hours	Workload Hours
0	0

OEE Workload	Instruction

Cross Listed Courses
POLISCI154 SOLVING SOCIAL PROBLEMS, PUBLPOL155 SOLVING SOCIAL PROBLEMS, COMM140X SOLVING SOCIAL PROBLEMS, EARTHSYS153 SOLVING SOCIAL PROBLEMS, SOC127 SOLVING SOCIAL PROBLEMS, DATASCI154 SOLVING SOCIAL PROBLEMS, MS&E134 SOLVING SOCIAL PROBLEMS

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	18

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Hours	Mode
0	In Person
Enrollment Optional?	**Default Section Size**
No	30
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

1	5

Left Use	Contact Use
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	18
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No

This course has been approved for the following WAYS
Applied Quantitative Reasoning (AQR), Social Inquiry (SI)

Does this course satisfy the University Language Requirement?
No

No | No

Time Use
No

Template Override
No

Exam Seat Spacing
1

Simple Requisites

ECON163 Prerequisite
Type
Prerequisite

Complete at least 1 of the following courses:

- CS106A - Programming Methodology
- CS106AX - Programming Methodologies in JavaScript and Python (Accelerated)
- CS106X - Programming Abstractions (Accelerated)
- CS106B - Programming Abstractions
- DATASCI112 - Principles of Data Science

Additional Comments:

This course has been approved for the following WAYS
Social Inquiry (SI), Applied Quantitative Reasoning (AQR)

Course Description
This is a first course in open economy macroeconomics. The course's objective is to build the analytical foundation for understanding key macro issues in the world economy such as global capital flows, the behavior of exchange rates, currency and sovereign debt crises. While a significant portion of the course will be theoretical, there will be several occasions for linking the theory to real-world events. Prerequisite: ECON 52.
Grading Basis
ROP - Letter or Credit/No Credit

Course Description
Explaining patterns of trade among nations; characterizing the sources of comparative advantage in production and the prospect of gains from economies of scale. Enumerating and accounting for the net aggregate gains from trade, and identifying winners and losers from globalization. Analyzing the effects of international labor migration, foreign direct investment, outsourcing, and multinational companies. Strategic trade policy; international trade agreements; labor and environmental implications. We will review relevant theoretical frameworks, examine empirical

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	25

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
2

Code	Course Component

evidence, and discuss historical and contemporary policy debates as covered in the popular press; active class participation is an important part of the course. Prerequisite: ECON 51 (Public Policy majors may take PUBLPOL 51 as a substitute for ECON 51).

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

LEC	Lecture

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Enrollment Optional?
No

Default Section Size
100

Final Exam
Yes

Include in Dynamic Date Calc
No

Generate Attendance
No

Auto Create
Yes

Attendance Type
Meeting

Present Use
No

Reason Use
No

Tardy Use
No

Left Use
No

Contact Use
No

Time Use
No

Template Override
No

Exam Seat Spacing
2

Simple Requisites

ECON165 Prerequisite

Type
Prerequisite

Complete ALL of the following Courses:

Exam Seat Spacing
1

Code	**Course Component**
SEM	Seminar

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Enrollment Optional?
No

Default Section Size
999

Final Exam
Yes

Include in Dynamic Date Calc
No

Generate Attendance
No

Auto Create
Yes

Attendance Type
Meeting

Present Use
Yes

Reason Use
Yes

Tardy Use
Yes

Left Use
Yes

Contact Use
Yes

Time Use
Yes

Template Override
No

Exam Seat Spacing
2

Complete ALL of the following Courses:

- ECON52 - Economic Analysis III

Additional Comments:

This course has been approved for the following WAYS	Does this course satisfy the University Language Requirement?
Social Inquiry (SI)	No

Simple Requisites

ECON166 Prerequisite

Type

Prerequisite

Complete at least 1 of the following courses:

- ECON51 - Economic Analysis II
- INTLPOL204A - Intermediate Microeconomics for Public Policy
- PUBLPOL50 - Intermediate Microeconomics for Public Policy
- PUBLPOL301A - Intermediate Microeconomics for Public Policy

Additional Comments:

This course has been approved for the following WAYS	Does this course satisfy the University Language Requirement?
Social Inquiry (SI)	No

Course Description

Game theory is the formal toolkit for analyzing situations in which payoffs depend not only on your actions (say, which TV series you watch), but also others' (whether your friends are watching the same show). You've probably already heard of some famous games, like the prisoners' dilemma and the costly signaling game. We'll teach you to solve games like these, and more, using tools like Nash equilibrium, subgame perfection, Bayesian Nash equilibrium, and the one-off deviation principle. Game theory has traditionally been applied to understand the behavior of highly deliberate agents, like heads of state, firms in an oligopoly, or participants in an auction. However, we'll apply game theory to social behavior typically considered the realm of psychologists and philosophers, such as why we speak indirectly, in what sense beauty is socially constructed, and where our moral intuitions come from. Nearly each week, students are expected to complete a problem set, to read 2-3 academic papers, and to complete a 1-2 page

Course Description

Are you interested in environmental and energy policy? Do you want to improve your data science skills? If so, Empirical Environmental Economics is for you. In the first few weeks of class, you'll use data and microeconomic modeling to quantify the harms from pollution, including estimating the social cost of carbon emissions. For the rest of the quarter, you'll use more data and microeconomic modeling to evaluate major environmental policies such as pollution taxes, cap-and-trade programs, and subsidies for clean technologies. You will consider overall benefits and costs as well as the distributional equity, which can inform discussions of environmental justice. You will learn and practice useful data science skills, including applied econometrics/causal inference methods (e.g., difference-in-differences, instrumental variables, and regression discontinuity) and equilibrium modeling. The class has weekly problem sets involving data analysis in R, plus a final paper. Class sessions feature active learning, discussions, and small-group

response to short essay questions (`prompts') on these readings. All assignments can be completed in groups of two. There will also be a final exam. Prerequisites: Although there are no formal prerequisites for this course, we will make frequent use of probability theory (Bayes¿ Rule; conditional probabilities), set theory notation, and proofs. Students without a background in these tools have historically found some of the later problem sets to be challenging. TA sessions are not required, but are recommended for students without the necessary math background. Not sure if this class is for you? Take our self assessment, then see how your answers compare with ours. (Assessments and solutions can be found here: https://economics.stanford.edu/undergraduate/forms)

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	18

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

case studies. You should only enroll if you expect to attend regularly and complete the problem sets on time. Prerequisites: You must have experience with regression analysis (e.g., ECON 102 or 108, CS 129, EARTHSYS 140, HUMBIO 88, POLISCI 150C, or STATS 60 or 101). If you plan to take microeconomics (e.g., ECON 1, 50, or 51), we recommend you take those either beforehand or concurrently. If you have no economics background, you may still be comfortable in class if you are strong in math, statistics, and/or computer science. If you have not used R before, that is OK: we will guide you from the beginning. If you have used R before, you can still learn a lot in this class through the applications.

Cross Listed Courses
SUSTAIN130 EMPIRICAL ENVIRONMENTAL ECONOM, SUSTAIN230 EMPIRICAL ENVIRONMENTAL ECONOM

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
4	5

Contact Hours

Value
0

Academic Progress Hours

Value
4

Financial Aid Hours

Value
4

Course	Course Repeatable for Degree

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	18

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	18

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use

Count	Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	18

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use

No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

This course has been approved for the following WAYS

Social Inquiry (SI)

Course Description

The field of behavioral economics draws on insights from other disciplines, especially psychology, to enrich our understanding of economic behavior. In this course, we will discuss how psychological considerations can create behavioral patterns that diverge from the predictions of standard economic models, the implications of those behavioral patterns for market outcomes and public policies, and the ways in which economists incorporate those considerations into their theories. We will also examine how social motives (such as altruism or concerns about fairness, equity, status, or image) impact economic behavior. We will learn about classical findings and leading theories in behavioral economics. The treatment of psychological phenomena in this course involves tools similar to those employed in other economics courses. Prerequisites: ECON 50 and ECON 102A. Econ 51 and 102B are recommended.

Grading Basis

ROP - Letter or Credit/No Credit

Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Free Form Requirements

Basic microeconomics (e.g., ECON 1, 50, or 51) and regression analysis (e.g., ECON 102B or 108, CS 129, EARTHSYS 140, HUMBIO 88, POLISCI 150C, STATS 60 or 101), or willingness to work harder in the first two weeks to catch up.

Course Description

Methods and major subject areas that have been addressed by laboratory experiments. Focus is on a series of experiments that build on one another. Topics include decision making, two player games, auctions, and market institutions. How experiments are used to learn about preferences and behavior, trust, fairness, and learning. Final presentation of group projects. Prerequisites: ECON 51 (Public Policy majors may take PUBLPOL 51 as a substitute for ECON 51), ECON 102A.

Grading Basis

RLT - Letter (ABCD/NP)

Units

Min	Max
5	5

Contact Hours

Value
0

Code	Course Component
DIS	Discussion
Instructor Contact Hours	**Workload Hours**
0	0
OEE	

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Instructor Contact Hours	Workload Hours
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	80
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

Simple Requisites

ECON178 Prerequisite
Type
Prerequisite

Fulfill ALL of the following requirements:

0	In Person
Enrollment Optional?	**Default Section Size**
No	30
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

Simple Requisites

ECON179 Prerequisite
Type
Prerequisite

Fulfill ALL of the following requirements:

Complete at least 1 of the following courses:

- ECON51 - Economic Analysis II
- INTLPOL204A - Intermediate Microeconomics for Public Policy
- PUBLPOL50 - Intermediate Microeconomics for Public Policy
- PUBLPOL301A - Intermediate

Complete at least 1 of the following courses:

- ECON50 - Economic Analysis I

Complete at least 1 of the following courses:

- ECON102A - Introduction to Statistical Methods (Postcalculus) for Social Scientists
- CS109 - Introduction to Probability for Computer Scientists
- STATS116 - Theory of Probability

Additional Comments:
NOTES: Econ 102B recommended

This course has been approved for the following WAYS	Does this course satisfy the University Language Requirement?
Social Inquiry (SI)	No

Course Description
Examines the intimate relationship between environmental quality and the production and consumption of energy. Assesses the economics efficiency and political economy implications of a number of current topics in energy and environmental economics. Topics include: the economic theory of exhaustible resources, Greenhouse Gas Emissions (GHG) control (cap and trade mechanisms and carbon fees), GHG emissions offsets, the Strategic Petroleum Reserve (SPR), the "smart" transmission grid for electricity, nuclear energy and nuclear waste, the real cost of renewable energy, natural gas and coal-fired electricity production, the global coal and natural gas markets, Corporate Average Fuel Efficiency (CAFE) and Low-Carbon Fuel Standards (LCFS), Energy Efficiency Investments and Demand Response, and Carbon Capture and Sequestration (CCS). For all topics, there will be reading to explain the economics and engineering behind the topic and class discussion to clarify and elaborate on this interaction. Prerequisite:

Microeconomics for Public Policy

Complete at least 1 of the following courses:

- ECON102A - Introduction to Statistical Methods (Postcalculus) for Social Scientists

Additional Comments:

This course has been approved for the following WAYS	Does this course satisfy the University Language Requirement?
Social Inquiry (SI), Applied Quantitative Reasoning (AQR)	No

Course Description
Rigorous introduction to game theory and applications. Topics include solution concepts for static and dynamic games of complete and incomplete information, signaling games, repeated games, bargaining, and elements of cooperative game theory. Applications mainly from economics, but also political science, biology, and computer science. Prerequisites: Experience with abstract mathematics and willingness to work hard. No background in economics required.
Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Code	Course Component
DIS	Discussion

Instructor Contact Hours
0
Workload Hours
0
OFF

Econ 1 is recommended.

Grading Basis

RLT - Letter (ABCD/NP)

Units

Min	Max
3	3

Contact Hours

Value

0

Academic Progress Hours

Value

3

Financial Aid Hours

Value

3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	3

	Course Component
Code	SU Intro Seminar - Freshman

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	20

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing

1

Academic Progress Hours

Value

5

Financial Aid Hours

Value

5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing

1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

1

This course has been approved for the following WAYS
Social Inquiry (SI)

Does this course satisfy the University Language Requirement?
No

0 In Person

Enrollment Optional?	Default Section Size
No	30
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

This course has been approved for the following WAYS
Social Inquiry (SI), Formal Reasoning (FR)

Does this course satisfy the University Language Requirement?
No

Course Description
Rigorous introduction to the theory of matching and resource allocation, and its application to practical market design. Theory covers two-sided matching, "house allocation" problems, random assignment, and their variants. Applied topics include school choice, labor market, house allocation, and organ allocation for transplantation. Final paper required. Forms a

Course Description
This course provides an introduction to the theory and practice of institutional investment management, including asset allocation and manager selection across public and private equity, absolute return, real assets, and fixed income. The course is taught by the CIO of Stanford's endowment, along with other members of the investment team, and takes the

sequence with ECON 180 and ECON 181, but can be taken independently. Prerequisites: Experience with abstract mathematics and willingness towork hard. No prior knowledge of economics is required, although basic knowledge in game theory is useful.

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat

perspective of an institution with a long-term investment horizon. We introduce and apply a framework for assessing investment strategies and investment firms. Students put theory into practice with guest speakers from leading investment firms, including partners at venture capital firms, real estate partnerships, and hedge funds. Enrollment is capped at 20. All majors are welcome. To apply please send a one to two paragraph statement of interest and an unofficial transcript to econ184@ smc.stanford.edu by December 3, 2023. Econ 1 and Econ 102A, Stats 60, or equivalent courses recommended and may be taken concurrently. Lunch will be provided for each Monday lecture.

Grading Basis

RLT - Letter (ABCD/NP)

Units

Min	Max
4	4

Contact Hours

Value
0

Academic Progress Hours

Value
4

Financial Aid Hours

Value
4

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for	Total Units Allowed for

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	20

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason

	Exam Seat Spacing 1	**Degree Credit** 1	**Degree Credit** 4	**Use** Yes **Tardy Use** Yes **Left Use** Yes **Contact Use** Yes **Time Use** Yes **Template Override** No **Exam Seat Spacing** 1
This course has been approved for the following WAYS Formal Reasoning (FR)	**Does this course satisfy the University Language Requirement?** No			

Code SEM	**Course Component** Seminar
Instructor Contact Hours 0	**Workload Hours** 0
OEE Workload Hours 0	**Instruction Mode** In Person
Enrollment Optional? No	**Default Section Size** 20
Final Exam No	**Include in Dynamic Date Calc** No
Generate Attendance No	**Auto Create** Yes
Attendance Type Meeting	**Present Use** Yes
Reason Use Yes	**Tardy Use** Yes
	Contact

Left Use	Use
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Course Description
Are you interested in clean tech and sustainability? Do you like working with data or plan to manage data scientists? Do you want to find a socially impactful job? If so, Data Science for Environmental Business is for you. Each week, we'll have a guest speaker from a utility, venture capital firm, clean tech startup, renewable energy developer, or some other sustainability-related business. We'll do a quantitative case study of one of the speaker's business problems, such as carbon footprint measurement, supply chain decarbonization, techno-economic analysis, where to site renewable energy facilities, how to value electricity storage, or predicting demand for electric vehicles. Then in the next class, we'll discuss the analytical decisions you made on the case study and the business implications of your results. We aim to draw a mix of students from the GSB, engineering, sustainability, data science, computer science, economics, math, and other fields. Students registering through the GSB should expect a roughly standard MBA class workload. Students registering through non-GSB course numbers should expect a serious data science course where you'll learn and apply new methods. We hope to develop a pipeline of students working for the guest speakers and similar firms. Prerequisites: You must know basic statistics and regression analysis (e.g., ECON 102 or 108, CS 129, EARTHSYS 140, HUMBIO 88, POLISCI 150C, or STATS 60 or 101). You should also have at least some

Course Description
For juniors (advanced sophomores will be considered) who expect to write an honors thesis in Economics or Public Policy. Weekly sessions go through the process of selecting a research question, finding relevant bibliography, writing a literature review, introduction, and study design, culminating in the write-up of an honors thesis proposal (prospectus) and the oral presentation of each student's research project. Students also interact with potential advisors, and outline a program of study for their senior year. To apply, complete the application at https://economics.stanford.edu/undergraduate/forms.

Cross Listed Courses
PUBLPOL197 JUNIOR HONORS SEMINAR

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Code	Course Component
SEM	Seminar
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
	Default Enrollment Section

experience with data analysis in R, python, Stata, MATLAB, or something similar. If you plan to take microeconomics (e.g., ECON 1, 50, or 51) or empirical environmental economics (ECON 177), we recommend you take those either beforehand or concurrently.

Cross Listed Courses
SUSTAIN135 DATA SCI FOR ENVIOR BUSINESS, SUSTAIN235 DATA SCI FOR ENVIOR BUSINESS, PUBLPOL185 DATA SCI FOR ENVIOR BUSINESS

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	18

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Enrollment Optional?	Section Size
No	18

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Code	**Course Component**
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	18
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**

No	No

Exam Seat Spacing
1

Course Description
In-depth study of an appropriate question and completion of a thesis of very high quality. Normally written under the direction of a member of the Department of Economics (or some closely related department). See description of honors program. Register for at least 1 unit for at least one quarter after your honors application is approved. Winter registration for one unit under the supervision of the Director of the Honors Program is mandatory for all honors students.

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
1	10

Contact Hours
Value
0

Academic Progress Hours
Value
1

Financial Aid Hours
Value
1

Course Count	**Course Repeatable for Degree Credit?**

	Course Component
Code	Individual Study
INS	
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	Independent Studies
Enrollment Optional?	**Default Section Size**
No	30
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**

Course Description
For most U.S. residents, government is represented by a complicated web of federal, state, and local policies. There is an increasingly contentious debate about the proper role of the government and regarding the impact of specific government policies. In this seminar, we will explore how each level of government interacts with U.S. residents through public services, programs, taxes, and regulations. We will examine financial inflow and outflow for different levels of government while considering the net effects of government intervention on the health and economic well-being of individuals and families. Particular attention will be paid to certain sectors (e.g. education, health care, criminal justice) and to certain groups (e.g. those in poverty, the elderly). We will also study U.S. governments' unprecedented response to the COVID-19 pandemic. No Prerequisites.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	3

Contact Hours
Value
0

Academic Progress Hours
Value
3

Financial Aid Hours

	Course Component
Code	SU Intro Seminar - Freshman
ISF	
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**

Count	Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

Hours Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	3

Optional?	Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Course Description
Spending by federal, state, and local governments accounts for about one-third of U.S. GDP and governments employ more than one-in-seven workers in the U.S. For most U.S. residents, government is represented by a complicated web of federal, state, and local policies. There is an increasingly contentious debate about the proper role of the government and regarding the impact of specific government policies. This debate is rarely grounded in a common set of facts. In this seminar, we will explore how each level of government interacts with U.S. residents through government services, public programs, taxes, and regulations. We will examine financial results for different levels of government while considering the net effects of government intervention on the health

Course Description
The course covers all of economics at a basic level. It stresses the key idea that economics is about making purposeful choice with limited resources and about people interacting with other people as they make these choices. Most of those interactions occur in markets, and the course is mainly about markets, including labor markets and capital markets. We show why free competitive markets can improve people's lives and how they have removed millions from people from poverty, with many more, we hope, to come; we show how monopolies and environmental spillovers cause market failures; we show how to remedy these failures through government policy; and we explain why government failure can also be a problem. The overall goal is to use economics to understand the big

and economic well-being of individuals and families. Particular attention will be paid to certain sectors (e.g. education, health care, etc.) and to certain groups (e.g. those in poverty, the elderly, etc.). Along the way we will accumulate a set of metrics to assess the performance of each level of government while highlighting the formidable challenges of such an exercise. Prerequisite: Econ 1.

Cross Listed Courses
PUBLPOL19Q GOVERNMENT BY THE NUMBERS

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	3

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	3

Code	Course Component
ISS	SU Intro Seminar - Sophomore

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	16

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

issues of the day including economic growth, inequality, crises, and unemployment. The goal of this course is to learn how to use economic analysis to reach reasoned conclusions about the big issues of the day from the workings and benefits of a market economy to the causes of economic growth, financial crises, and unemployment.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	999

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override

Left Use	Contact Use
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Simple Requisites

ECON19Q Prerequisite
Type
Prerequisite

ECON19Q Prerequisite

Complete at least 1 of the following courses:

- ECON1 - Principles of Economics

Additional Comments:

This course has been approved for the following WAYS
Social Inquiry (SI)

Does this course satisfy the University Language Requirement?
No

Course Description
Restricted to Economics PhD students in their first year. Must be taken in both Winter and Spring Quarters. Enrollment by permission number only.

Grading Basis
RSN - Satisfactory/No Credit

Units	
Min	**Max**
1	1

Contact Hours
Value
0

Code	Course Component
SEM	Seminar
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload	**Instruction**

Yes	No
Exam Seat Spacing	
1	

This course has been approved for the following WAYS
Social Inquiry (SI)

Does this course satisfy the University Language Requirement?
No

Course Description
(Non-Economics graduate students register for 202N.) Open to advanced undergraduates with consent of instructors. Theory of the consumer and the implications of constrained maximization; uses of indirect utility and expenditure functions; theory of the producer, profit maximization, and cost minimization; monotone comparative statics; behavior under uncertainty; partial equilibrium analysis and introduction to models of general equilibrium. Limited enrollment. Prerequisite: thorough understanding of the elements of multivariate calculus and linear algebra.

Grading Basis
ROP - Letter or Credit/No Credit

Units	Course

Academic Progress Hours

Value
1

Financial Aid Hours

Value
1

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
2	2

Hours	Mode
0	In Person

Enrollment Optional?	Default Section Size
No	18

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Min	Max
2	5

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	20

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	57
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Does this course satisfy the University Language Requirement?
No

Course Description
Theory of the consumer and the implications of constrained maximization: uses of indirect utility and

Course Description
(Non-Economics graduate students register for 203N.) Non-cooperative game theory including normal and

constrained maximization; uses of indirect utility and expenditure functions; theory of the producer, profit maximization, and cost minimization; behavior under uncertainty; partial equilibrium analysis and introduction to models of general equilibrium; discussion of how assumptions and models stand up to recent developments in empirical and in particular behavioral economics. Prerequisite: understanding of basic calculus and some familiarity with writing basic proofs.

Grading Basis

ROP - Letter or Credit/No Credit

Units	
Min	**Max**
2	5

Contact Hours
Value
0

Academic Progress Hours
Value
2

Financial Aid Hours
Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Non-cooperative game theory including normal and extensive forms, solution concepts, games with incomplete information, and repeated games. Externalities and public goods. The theory of imperfect competition: static Bertrand and Cournot competition, dynamic oligopoly, entry decisions, entry deterrence, strategic behavior to alter market conditions, bargaining theory. Enrollment is limited to Econ PhD students for the first two weeks of open enrollment, after which the remaining space will be available to all other interested students. Prerequisite: ECON 202.

Grading Basis

ROP - Letter or Credit/No Credit

Units	
Min	**Max**
3	5

Contact Hours
Value
0

Academic Progress Hours
Value
3

Financial Aid Hours
Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	52

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Contact

Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Code	**Course Component**
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	30
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**

Left Use	**Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

Code	**Course Component**
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	52
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No

Yes	No

Exam Seat Spacing
2

Does this course satisfy the University Language Requirement?
No

Course Description
Social Choice, including Arrow's theorem, the Gibbard-Satterthwaite theorem, and the Vickrey-Clarke-Groves mechanism. The theory of contracts, emphasizing contractual incompleteness and the problem of moral hazard. Incentive regulation. Competition with imperfect information, including signaling and adverse selection. Competitive equilibrium and the core. Limited enrollment. Non-Econ students need permission of instructor to enroll. Enrollment is limited to Econ PhD students for the first two weeks of open enrollment, after which the remaining space will be available to all other interested students. Prerequisite: ECON 202 and 203.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid

Code	Course Component
DIS	Discussion

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Enrollment Optional?
Yes

Default Section Size
30

	Template Override
Time Use	
No	No

Exam Seat Spacing
2

Does this course satisfy the University Language Requirement?
No

Course Description
The World Food Economy is a survey course that covers the economic and political dimensions of food production, consumption, and trade. The course focuses on food markets and food policy within a global context. It is comprised of three major sections: structural features (agronomic, technological, and economic) that determine the nature of domestic food systems; the role of domestic food and agricultural policies in international markets; and the integrating forces of international research, trade, and food aid in the world food economy. This 5-unit course entails a substantial group modeling project that is required for all students. Enrollment is by application only. The application is found at https://economics.stanford.edu/undergraduate/forms. Deadline: March 15, 2022.

Cross Listed Courses
EARTHSYS106 WORLD FOOD ECON, ECON106 WORLD FOOD ECON, ESS106 WORLD FOOD ECON, ESS206 WORLD FOOD ECON, EARTHSYS206 WORLD FOOD ECON

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
5	5

Contact Hours

Code	Course Component
DIS	Discussion

Instructor Contact Hours

Workload Hours

Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	31

Final Exam	Include in Dynamic Date Calc

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Hours	Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	15

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE

Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Does this course satisfy the University Language Requirement?
No

Course Description
This course will advance students understanding of economic, legal, and political approaches to avoiding or managing the problem of global climate change. Theoretical contributions as well as empirical analyses will be considered. It will address economic issues, legal constraints, and political challenges associated

Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	30
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

This course has been approved for the following WAYS
Social Inquiry (SI)

Does this course satisfy the University Language Requirement?
No

Course Description
Dynamic programming applied to a variety of economic problems. These problems will be formulated in discrete or continuous time, with or without uncertainty, with a finite or infinite horizon. There will be weekly problem sets and a take-home final that will require MATLAB programming. Limited enrollment

legal constraints, and political challenges associated with various emissions-reduction and adaptation strategies, and it will consider policy efforts at the local, national, and international levels. Specific topics include: interactions among overlapping climate policies, the strengths and weaknesses of alternative policy instruments, trade-offs among alternative policy objectives, and decision making under uncertainty. Prerequisites: Econ 50 or its equivalent.

Cross Listed Courses
EARTHSYS159 CLIMATE-CHANGE POLICY, ECON159 CLIMATE-CHANGE POLICY, PUBLPOL159 CLIMATE-CHANGE POLICY

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree	Total Units Allowed for Degree

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	999

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use

require MATLAB programming. Limited enrollment.

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
2	5

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	25

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Credit	Credit
1	5

Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

Code	**Course Component**
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	46
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Does this course satisfy the University Language Requirement?
No

Course Description
Dynamic stochastic general equilibrium models using dynamic programming methods that are solved with MATLAB. Growth models (neoclassical, human capital, technical change) using optimal control theory. Enrollment is limited to Econ PhD students for the first two weeks of open enrollment, after which the remaining space will be available to all other interested students. Prerequisite: ECON 210.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	15

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use

Course Description
Real business cycle and new Keynesian models: business cycle fluctuations, inflation dynamics, the effects of monetary and fiscal policy, and optimal policy. Models of heterogeneity: search models of the labor market; precautionary savings and general equilibrium with incomplete markets; constrained efficiency; endogenous market incompleteness and recursive contracts; optimal taxation and redistribution. Enrollment is limited to Econ PhD students for the first two weeks of open enrollment, after which the remaining space will be available to all other interested students. Prerequisites: ECON 203, ECON 210, ECON 211.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions	Total Units

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	20

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Code	**Course Component**
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	35
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**

Allowed for Degree Credit	**Allowed for Degree Credit**
1	5

Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Code	**Course Component**
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	35
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No

Time Use	Override
No	No

Exam Seat Spacing
2

Does this course satisfy the University Language Requirement?
No

Course Description
This course uses microeconomic theory and empirical analyses to understand barriers to human and economic development in lower income countries, as well as how public policies are formulated and their effectiveness at alleviating poverty. Topics include institutions and governance; human capital accumulation; productivity; inequality; poverty traps. Prerequisites: 202 or 202N, 270.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	20

Include in

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
2

Does this course satisfy the University Language Requirement?
No

Course Description
This course uses economic theory and empirical analyses to understand barriers to human and economic development in lower income countries, as well as how public policies are formulated and their effectiveness at alleviating poverty. Topics include barriers to agricultural productivity; urban and rural labor markets; migration; technological change; models of growth and development and public finance in less developed countries. Prerequisites: 202 or 202N, 270.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Final Exam	Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	20

Final Exam	Include in Dynamic Date Calc
No	No

Financial Aid Hours
Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Does this course satisfy the University Language Requirement?
No

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Generate Attendance	Auto Create
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Does this course satisfy the University Language Requirement?
No

Course Description
This course focuses on savings, credit, informal insurance, the expansion of microfinance, social networks, social learning and technology adoption, public finance and firm organizations. Prerequisite: 202, 203, 204, 210, 211, 212, 270, 271, 272.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic

Code	Course Component
DIS	Discussion
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**

Course Description
In this student-initiated and student-facilitated reading group, we will read and discuss economics papers on racial and ethnic diversity and discrimination. We draw on papers from different economics literatures, including health, education, intergenerational mobility, and political economy. Our aim is to have a structured but informal conversation about each paper. Guest speakers will also present their research on these topics and have Q&A sessions with the students. There are no prerequisites, and discussions will be accessible for students with little or no prior exposure to Economics research. Freshmen and sophomores are particularly encouraged to enroll. To apply, complete the application at https://economics.stanford.edu/undergraduate/forms. The deadline is 3/13/21.

Grading Basis
RSN - Satisfactory/No Credit

Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Default

Units

Min	Max
1	1

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Value
1

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	1

Code	Course Component
ACT	Activity

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	20

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Enrollment Optional?	Section Size
No	20
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Course Description
Introduction to empirical and theoretical research in political economy. This course focuses on issues in democracies, while Political Economy II focuses on issues in non-democracies. Topics may include institutional foundations, social choice, electoral competition and candidate positioning, accountability, voter behavior, polarization, media and political communication, redistribution, special interests and lobbying, collective action, immigration, and populism. Prerequisite for Econ PhD students: ECON 202 and 270 or permission of instructors. Prerequisites for Political

Course Description
Continuation of ECON 220 / POLISCI 460A. Preparation for advanced research in political economy. This quarter will focus on topics related to culture, institutions, political and economic development, historical evolution, nondemocratic politics, conflict and cooperation. We will cover both empirical and theoretical work. Prerequisite for Political Science PhDstudents: POLISCI 356A.

Cross Listed Courses	Grading Basis
POLISCI460B POLITICAL ECONOMY II	ROP - Letter or Credit/No Credit

Science PhD students: POLISCI 450A, POLISCI 450B, and POLISCI 356A.

Cross Listed Courses
POLISCI460A POLITICAL ECONOMY I

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	25

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	25

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component

1

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	25
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

Does this course satisfy the University Language Requirement?

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	25
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?

No

Requirement?
No

Course Description
There is a growing awareness that many of the key challenges in fostering development in poor societies are political challenges. What can we do to encourage trade, cooperation and peace in environments riven with social and ethnic divisions? How do we foster broadly beneficial political reforms and good governance when the potential losers to reforms are able to mobilise to prevent them? How do we detect and mitigate the effects of corruption? What role may modern finance play in creating or mitigating political economy challenges in developing countries? These problems are modern and endemic, but many are also old problems, and economic theory and the practical experiences of different countries have much to tell us both about what has worked in the past, and what policy experiments we may try in new environments. Rather than a survey, the objective of this course is to selectively discuss new and open research areas in political development economics and the theoretical and empirical tools necessary to contribute to them, with the topics chosen to complement other Stanford courses in applied microeconomics, development, political economics and economic history. By the end of the course, the student will have analyzed a theoretical or historical solution to a key political development challenge and proposed a natural or field experiment to test it empirically. Graduate level proficiency in microeconomics and empirical methods will be required.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	3

Contact Hours

Value
0

Code	Course Component
SEM	Seminar

Instructor Contact Hours	Workload Hours
0	0

OEE

Course Description
The role of economic history as a distinctive approach to the study of economics, using illustrations from U.S. history and topics in international economics. Topics focused on the US include: historical and institutional foundations of US economic growth; economic causes and consequences of slavery; women's changing role in the economy; inequality and intergenerational mobility; the growth of social insurance. Topics in international economics include globalization of goods and capital flows and their impact on growth, financial and sovereign debt crises, and financial institutions. Enrollment limited to graduate students.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
2	5

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	20

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use

Academic Progress Hours
Value
3

Financial Aid Hours
Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	3

Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

Course Description
European Economic History: covers topics in European Economic History from the Middle Ages to the twentieth century (but does not cover detailed economic history of particular European countries). Topics include competing hypotheses in explaining long term trends in economic growth and cross-

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

Course Description
The course integrates historical analysis and economic theory in evaluating the nature and role of institutions in economic and political outcomes. The motivating question is the factors determining economic and political developments in the long run and the historical focus is on the Middle East, Europe, and

country differences in long-term economic growth; the diffusion of knowledge; the formation, function, and persistence of institutions and organizations; the role of institutions and organizations (for example, apprenticeship, servitude, partnerships, cooperatives, social networks, share cropping, and communes) as solutions to contractual problems; the causes and consequences of income inequality; the economics of migration; the changing economic role of the family. The course will highlight the use of economic theory in guiding hypothesis testing, as well as the construction of new datasets and the execution of empirical analysis. Enrollment limited to graduate students.

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
2	5

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	20

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

China over the last millennium. The course first examines various approaches for the study of institutions, their nature and dynamics and then focuses on detailed discussions of frontier research papers.

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
2	5

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat

Credit	Credit
1	5

	Contact Use
Left Use	No
No	
Time Use	Template Override
No	No
Exam Seat Spacing	
1	

Spacing
1

Course Description
Topics in Economic History: covers topics in Economic History such as the industrial revolution, the demographic transition, the great divergence, the importance of institutions, the diffusion of knowledge, the causes and consequences of income inequality, and immigration over the last two centuries. The course will highlight the roles of economic history in modern economics, the use of economic theory in guiding hypothesis testing, and the construction of new datasets and the execution of empirical analysis. The course is open to PhD students only.
Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

	Course Component
Code	DIS
Instructor Contact Hours	Workload Hours
0	0
OEE Workload Hours	Instruction Mode
0	In Person
Enrollment Optional?	Default Section Size
Yes	25
	Include in

Course Description
In this class we will discuss the economic and institutional causes of the rise in inequality in the US and other countries over the last 40 years. We will also discuss the consequences of inequality in terms of social justice, economic welfare, aggregate economic performance, intergenerational mobility, and the possible implications of inequality for the recent global financial crisis.
Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
3	3

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

	Course Component
Code	SU Intro Seminar - Freshman
Instructor Contact Hours	Workload Hours
0	0
OEE Workload Hours	Instruction Mode
0	In Person
Enrollment Optional?	Default Section Size
No	20
Final	Include in Dynamic

Value
3

Course Count	Course Repeatable for Degree Credit?
1	Yes
Total Completions Allowed for Degree Credit	**Total Units Allowed for Degree Credit**
99	999

Final Exam	Include in Dynamic Date Calc
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	25
Final Exam	**Include in Dynamic Date Calc**
No	No

Course Count	Course Repeatable for Degree Credit?
1	No
Total Completions Allowed for Degree Credit	**Total Units Allowed for Degree Credit**
1	3

This course has been approved for the following WAYS
Social Inquiry (SI)

Final Exam	Include in Dynamic Date Calc
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

Does this course satisfy the University Language Requirement?
No

No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

Does this course satisfy the University Language Requirement?
No

Course Description
Topics in the theory and empirics of economic growth. For PhD-level students.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
2	5

Contact Hours

Value
0

Academic Progress Hours

Value
2

Code	**Course Component**
DIS	Discussion
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
	Default

Course Description
Course Description: This is an advanced class in macroeconomics. We cover monetary and business cycles models, labor models, and HANK models. We emphasize solution methods in continuous and discrete time. Students enrolled in MGTECON 612 take the class for 4 units. Students develop a research proposal and present it to the instructors as the final exam. Prerequisite: Satisfaction of the economics department's core macro requirement or consent of the instructors.

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
3	5

Code	**Course Component**
DIS	Discussion
Instructor Contact	**Workload**

2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Enrollment Optional?	Section Size
Yes	20

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	20

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

Final Exam	Include in Dynamic Date Calc
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Course Description
Current topics to prepare student for research in the field. Recent research in labor-market friction, reallocation, fluctuations, wage and price determination, innovation, and productivity growth. Research methods, presentations skills, and writing in advanced economics.

OEE Workload Hours	Instruction Mode
0	In Person
Enrollment Optional?	**Default Section Size**
No	10
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Course Description
This course will cover research topics at the boundary between macroeconomics and finance. Topics may include the study of macroeconomic models with financial frictions, conventional and unconventional monetary policy, its transmission mechanism and the term structure of interest rates, sovereign debt crises

advanced economics.

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
2	5

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	10

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

term structure of interest rates, sovereign debt crises, search frictions and segmentation in housing markets, (over)leveraging by households, heterogeneous expectations, excess volatility, financial bubbles and crises. Prerequisites: 210, 211, 212.

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	7

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	10
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Spacing
2

Does this course satisfy the University Language Requirement?
No

Course Description
The goal of this course is to introduce students to frontier research in quantitative macroeconomics and finance with heterogeneous agents. We study models with imperfect financial markets and/or search frictions. We emphasize theory and numerical methods as well as tools to confront model predictions with both micro and macro data. Potential applications cover a wide range of topics in household finance, corporate finance and firm dynamics, asset pricing, housing and labor markets, business cycles and growth. (Same as MGTECON 617)

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree	Total Units Allowed for Degree

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use

Course Description
May be repeated for credit.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
1	10

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Value
1

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

Code	Course Component
INS	Individual Study

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Enrollment Optional?
0	No

Default Section Size	Final Exam
30	No

Include in Dynamic Date Calc	Generate Attendance
No	No

Auto Create	Exam Seat Spacing
No	1

Does this course satisfy the University Language Requirement?
No

Credit	Credit
1	5

Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Code	**Course Component**
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	30
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**

Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Course Description
We will explore the evolution and current performance of capitalist and socialist economies, their interaction with democracy, and the contemporary debate about the appropriate roles of individual vs. collective rights and responsibilities.

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
3	3

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

	Course Component
	SU Intro Seminar - Freshman
Code	
ISF	
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	20
Final Exam	**Include in Dynamic Date Calc**
No	No
Course Repeatable	

Course Description
SENSA labs seminar incubates social entrepreneurship startups through bi-weekly meetings that feature guest speakers. Applications for enrollment are due by March 1, 2019. The application can be found here: https://economics.stanford.edu/academics/undergradu program/forms

Grading Basis
RSN - Satisfactory/No Credit

Units

Min	Max
2	2

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

	Course Component
Code	
SEM	Seminar
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	15
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate	**Auto**
Course	

Course Count	for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	3

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

This course has been approved for the following WAYS
Social Inquiry (SI)

Does this course satisfy the University Language Requirement?
No

Course Description
Design of tax systems, transfers intended to alleviate poverty, the effect of taxes on earnings, fees intended to internalize externalities like pollution, school finance and other forms of fiscal federalism, local public goods such as schools, policy evaluation with behavioral decision makers. Students will learn to apply sophisticated applications of frontier applied econometric techniques including synthetic controls, regression discontinuity, advanced instrumental variables methods. Prerequisites: ECON 202-204, ECON 210, ECON 270, ECON 271, or equivalent with consent of instructor.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max

Code	Course Component

Course Count	Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	2

Attendance	Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Course Description
The first part of the course concerns inequality and the design of social insurance. We also explore questions in the intersection of public and family economics such as the unit of taxation, and the interaction between social insurance and intra-family insurance. The second half of the course covers local public policy and urban economics, and includes topics such as spatial equilibrium, placed-based policies and housing policy. Prerequisites: Econ 202, 203, 204, 210 or equivalent with consent of instructor. Recommended: Econ 241.270, 271, or equivalent with consent of instructor.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max

Code	Course Component

2	5

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

DIS	Discussion

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Enrollment Optional?
Yes

Default Section Size
30

Final Exam
No

Include in Dynamic Date Calc
No

Generate Attendance
No

Auto Create
No

Attendance Type
Meeting

Present Use
Yes

Reason Use
Yes

Tardy Use
Yes

Left Use
Yes

Contact Use
Yes

Time Use
Yes

Template Override
No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours

Workload Hours

3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

LEC	Lecture

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Enrollment Optional?
No

Default Section Size
6

Final Exam
Yes

Include in Dynamic Date Calc
No

Generate Attendance
No

Auto Create
Yes

Attendance Type
Meeting

Present Use
No

Reason Use
No

Tardy Use
No

Left Use
No

Contact Use
No

Time Use
No

Template Override
No

Exam Seat Spacing
2

Does this course satisfy the University Language Requirement?
No

Hours 0	**Hours** 0
OEE Workload Hours 0	**Instruction Mode** In Person
Enrollment Optional? No	**Default Section Size** 50
Final Exam Yes	**Include in Dynamic Date Calc** No
Generate Attendance No	**Auto Create** Yes
Attendance Type Meeting	**Present Use** No
Reason Use No	**Tardy Use** No
Left Use No	**Contact Use** No
Time Use No	**Template Override** No
Exam Seat Spacing 2	

Does this course satisfy the University Language Requirement?
No

Course Description
This class will cover topics in public economics, including those relating to regulation of consumer financial markets and the health care sector, among

Course Description
Market failures are the classic justification for government intervention in private markets. This course will focus on a small number of economically

others. The class will cover recent publications, with the intention of preparing students to conduct their own research. Prerequisites: Econ 202, 203, 204, 270, 271, or the consent of the instructor. Recommended: Econ 241 and 242.

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat

important markets where market failures are thought to be important: credit, health care, innovation, and insurance. For each of these markets, we will discuss theory and evidence on the existence and magnitude of market failures, and theory and evidence on the efficiency of public policy interventions designed to address those market failures. Prerequisites: ECON 202-204, ECON 270, ECON 271, or equivalent with consent of instructor.

Grading Basis

RLT - Letter (ABCD/NP)

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	20

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

Time Use | **Template Override**
Yes | No

Exam Seat Spacing
1

Course Description
The class will cover advances in the study of gender from Behavioral, Experimental and Labor Economics, e.g. traits in which women and men differ and what impact this may have for education and labor market outcomes. It will also examine gender differences in labor market outcomes and the role of policies and institutions in affecting these differences.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
2	5

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use

Course Description
Topics in current applied microeconomic research including intertemporal labor supply models, public policy, program evaluation, job search, migration, consumption behavior, the economics of the family, the technology of skill formation, discrimination. Student and faculty presentations.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
2	5

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	12

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Type	Use
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Course Description
Recent topics in applied micro, focusing on papers from top journals (QJE, AER, JPE, Econometrica and REStud) over the last ten years. Broad overview of current topic and techniques in applied-micro research - one student nicknamed this 'the greatest hits of applied micro'. Topics include inequality, polarization and skill-biased technical change, discrimination, technology adoption and the spread of information, management practices, field experiments, peer effects and academic spillovers. Combination of student and faculty presentations. Additional sessions on general presentations, paper writing and research skills to prepare for job market. Students write a term-paper.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Does this course satisfy the University Language Requirement?
No

Course Description
Theories of earnings determination with particular attention to the role of imperfect competition. Human capital theory with particular attention to education decisions and the industrial organization of the education sector. Prerequisites: assumes first-year sequences in macroeconomics, microeconomics, and econometrics.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Code	Course Component
DIS	Discussion
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
	Default

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	11

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Simple Requisites

ECON247 Prerequisite
Type
Prerequisite

Requisite: Must be a graduate or professional students to enroll, or have instructor consent.

Additional Comments:

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Enrollment Optional?	Section Size
No	18

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	20

Does this course satisfy the University Language Requirement?
No

Final Exam	Include in Dynamic Date Calc
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Course Description
Course will cover various topics in health economics, from theoretical and empirical perspectives. Topics will include public financing and public policy in health care and health insurance; demand and supply of health insurance and healthcare; physicians' incentives; patient decision-making; competition policy in healthcare markets, intellectual property in the context of pharmaceutical drugs and medical technology; other aspects of interaction between public and private sectors in healthcare and health insurance markets. Key emphasis on recent work and empirical methods and modelling. Prerequisites: Micro and Econometrics first year sequences (or equivalent). Curricular prerequisites (if applicable): First year

Course Description
We will discuss both theoretical and empirical analyses of environmental problems, ranging from local pollution challenges to global issues such as climate change. Topics include: Analyses of market failures, policy instruments, integrating environmental and distortionary taxes, policy making under uncertainty, valuing the environment, sustainable development, deforestation vs. conservation, and design of climate agreements.

Grading Basis
ROP - Letter or Credit/No Credit

Units		Course	
Min	**Max**	**Code**	**Component**

Curricular prerequisites (if applicable): First year graduate Microeconomics and Econometrics sequences (or equivalent)

Cross Listed Courses
HRP249 HEALTH ECONOMICS I, MED249 HEALTH ECONOMICS I

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat

3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

Spacing
1

Does this course satisfy the University Language Requirement?
No

Course Description
Economic theory and empirical analysis of non-renewable and renewable natural resources, with considerable attention to energy provision and use. Topics include: exhaustible resources; renewable resources; and energy industry market structure, pricing, and performance. Prerequisites: 202, 203, 204, 271, and 272, or equivalents with consent of instructor.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
2	5

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Course Description
This 2-credit course will examine vast changes driven by innovation both from within traditional finance and from new ecosystems in fintech among others. Breathtaking advances in financial theory, big data, machine learning, artificial intelligence, computational capability, IoT, payment systems (e.g. blockchain, crypto currencies), new products (e.g. robo advising, digital lending, crowd funding, smart contracts), new trading processes (e.g. algorithmic trading, AI-driven sales & trading), and new markets (e.g. ETFs, zero-cost products), among others are changing not only how financial and non-financial firms conduct business but also how investors and supervisors view the players and the markets. We will discuss critical strategy, policy and legal issues, some resolved and others yet to be (e.g. failed business models, cyber challenges, financial warfare, fake news, bias problems, legal standing for cryptos). The course will feature perspectives from guest speakers including top finance executives and Silicon Valley entrepreneurs on up-to-the-minute challenges and opportunities in finance. We will discuss slowing global growth against the backdrop of ongoing intervention and wildcards in the capital markets of the U.S., Europe, Hong Kong, Singapore, China, India, Japan, the Middle East and Latin America. We will look forward at strategic opportunities and power players appearing and being dethroned in the markets to discuss who is likely to thrive ¿ and not survive ¿ in the new global financial landscape. Prerequisites: If you are an undergraduate wishing to take this course, apply by completing the course application and provide a brief bio here: https://forms.gle/9BGYr8brdYwPS8Cu8

Cross Listed Courses	Grading Basis
PUBLPOL364 THE FUTURE OF FINANCE.	ROP - Letter or Credit/No Credit

Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Meeting Yes

Reason Use	Tardy Use
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

ECON152 THE FUTURE OF FINANCE

Units

Min	Max
2	2

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No
Total Completions Allowed for Degree Credit	**Total Units Allowed for Degree Credit**
1	2

Code	Course Component
SEM	Seminar
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	40
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Course Description
What theory and practice around the world and in Latin America tell us about the design of energy markets; how distributional impacts and enforcement capabilities affect their implementation. Topics include: pricing in wholesale electricity markets, role of long-term contracting, auction design, evidence from spot and contract markets ; design of markets for pollution permits, alternative environmental policy instruments, evidence from existing and proposed carbon markets and others, imperfect information, adverse selection in opt-in provisions, effect on innovation, interaction between markets, market power. Advanced undergraduates and masters students are welcome to enroll.

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
2	5

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Course Description
Examines the transformation of the economy enabled by digital technologies, including AI, networks, and the digitization of information, goods and services. Topics include the economics of information, two-sided networks and platforms, power laws, intangible assets, organizational complementarities, incomplete contracts, growth theory, and design of empirical studies. Extensive reading and discussion of research literature with relevant guest speakers. Students will complete a final research paper and presentation. Primarily for doctoral students.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree	Total Units Allowed for Degree

Code	Course Component
SEM	Seminar

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	20

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use

Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

Credit	Credit
1	5

Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Course Description
This course will cover theoretical and empirical work on the provision of information in markets. Likely topics include: theory of strategic communication; persuasion; media; advertising and brands; financial analysis and disclosure; political communication; text analysis using machine learning and natural language processing methods. Prerequisites: Econ 202 and 210 (or equivalent)

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
2	5

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	30

Course Description
This is a course on how energy and environmental markets work, and the regulatory mechanisms that have been and can be used to achieve desired policy goals. Throughout the course students play the roles of electricity generators, electricity retailers, energy traders, and electricity consumers in order to gain an understanding of how energy and environmental policies (including environmental regulations and renewable energy mandates) affect the business strategy of market participants - and in turn economic and environmental outcomes. The goal of the course is to provide students with both theoretical and hands-on understanding of important energy and environmental market concepts that are critical to market functioning but not always widely appreciated. The course is useful background for private sector roles in energy production, research, management, trading, investment, and government and regulatory affairs; government positions in policymaking and regulation; research and policy functions in academia, think tanks, or consultancies; and non-profit advocacy roles related to energy and the environment. Econ 1 recommended.

Cross Listed Courses	Grading Basis
ECON156 ENERGY MARKETS AND POLICY, INTLPOL276 ENERGY	ROP - Letter or Credit/No Credit

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

MARKETS AND POLICY

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	18

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Course

Code	Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	30
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

Course Description
Theoretical and empirical analyses of the determinants of market structure; firm behavior and

Course Description
Topics may include theoretical and empirical analysis of bargaining, dynamic models of entry and

market efficiency in oligopolies; price discrimination; price dispersion and consumer search; differentiated products; the role of information in markets, including insurance and adverse selection; auctions; collusion and cartel behavior; advertising; entry and market structure; market dynamics; strategic behavior.

Grading Basis

ROP - Letter or Credit/No Credit

Units	
Min	**Max**
2	5

Contact Hours
Value
0

Academic Progress Hours
Value
2

Financial Aid Hours
Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	No

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

investment, models of household borrowing, models of markets with asymmetric information, advertising, brands, and markets for information, and research at the boundaries between IO and neighboring fields such as trade, behavioral economics, and household finance. Prerequisite: Econ 257.

Grading Basis

ROP - Letter or Credit/No Credit

Units	
Min	**Max**
3	5

Contact Hours
Value
0

Academic Progress Hours
Value
3

Financial Aid Hours
Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	35
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	7
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Course Description
The seminar will provide an introduction and discussion of the impact of public policy on personal finance. Voters regularly rate the economy as one of the most important factors shaping their political views and most of those opinions are focused on their individual bottom lines. In this course we will discuss the rationale for different public policies and how they affect personal financial situations. We will explore personal finance issues such as taxes, loans, charity, insurance, and pensions. Using the context of (hypothetical) personal finance positions, we will discuss the public policy implications of various proposals and how they affect different groups of people, for example: the implications of differential tax rates for different types of income, the promotion of home ownership in the U.S., and policies to care for our aging population. While economic policy will be the focus of much of the course, we will also examine some of the implications of social policies on personal finance as well. There will be weekly readings and several short policy-related writing assignments.

Cross Listed Courses
PUBLPOL55N PUBLIC POLICY AND PERS FINANCE

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	3

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Code	Course Component
ISF	SU Intro Seminar - Freshman

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit

Does this course satisfy the University Language Requirement?
No

Course Description
Course combines individual meetings and student presentations, with an aim of initiating dissertation research in industrial organization. Prerequisites: ECON 257, ECON 258. Enrollment by non-Econ PhD students requires instructors' consent.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Value
3

Financial Aid Hours

Value
3

Course Count	**Course Repeatable for Degree Credit?**
1	No
Total Completions Allowed for Degree Credit	**Total Units Allowed for Degree Credit**
1	3

Hours	**Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	30
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

Credit	**Credit**
1	5

Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Code	**Course Component**
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	5
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**

No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Course Description
This course presents the power system engineering and economic concepts necessary to understand the costs and benefits of transitioning to a low carbon electricity supply industry. The technical characteristics of generation units and transmission and distribution networks as well as the mechanisms used to operate the electricity supply industries will be studied. The fundamental economics of wholesale markets and how intermittent renewables impact the price and quantity of physical and financial products traded in these markets (e.g., energy, capacity, ancillary services, and financial contracts) will be analyzed. Long-term resource adequacy mechanisms will be introduced and their properties analyzed. The role of both short-duration and seasonal energy storage will be analyzed. Mechanisms for determining the engineering and economic need for transmission network expansions in a wholesale market will be discussed. The impact of distributed versus grid-scale generation on the performance of electricity supply industries will be studied. A detailed treatment of electricity retailing will focus on the importance of active demand-side participation in a low carbon energy sector. This course uses knowledge of probability at the level of Stats 116, optimization at the level of MS&E 111, statistical analysis at the level of Economics 102B, microeconomics at the level of Economics 51 and computer programming in R.

Cross Listed Courses	**Grading Basis**
EE268 ENGR ECON	ROP - Letter or Credit/No

Course Description
The first part of this course covers Ricardian, factor-proportions and monopolistic-competition models of international trade. The second part of the course covers commercial policy, with an emphasis on the economics of trade agreements. Students are expected to develop and present a research proposal. Prerequisites: Econ 202 or permission of instructor.

Grading Basis
ROP - Letter or Credit/No Credit

Units	
Min	**Max**
3	5

Contact Hours
Value
0

Academic Progress Hours
Value
3

Financial Aid Hours
Value
3

Course Code	**Course Component**
DIS	Discussion
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
Yes	30
Final Exam	**Include in Dynamic Date Calc**
No	No

Course

ELECTRICITY MARKETS Credit

Units

Min	Max
3	3

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	3

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	18

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Simple Requisites

ECON261 Prerequisite

Course Count	Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
2

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Type
Prerequisite

Fulfill ALL of the following requirements:

Familiarity with optimization using linear algebra

Complete at least 1 of the following courses:

- ENGR108 - Introduction to Matrix Methods
- MATH104 - Applied Matrix Theory

Probability and statistical analysis

Complete at least 1 of the following courses:

- EE178 - Probabilistic Systems Analysis
- STATS116 - Theory of Probability

Additional Comments:

Attendance Type	Present Use
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Does this course satisfy the University Language Requirement?
No

Course Description
The course will cover quantitative and empirical work in trade, trade policy, and related subjects.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
2	5

Contact Hours

Value
0

Academic Progress Hours

Value
2

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment	**Default Section**

Course Description
Benchmark open economy models. Solution methods for macroeconomic models. Analysis and evaluation of quantitative macroeconomic models. Main applications: Sovereign debt and default; Financial crises and sudden stops; Hedging, interest parity relationships, and the determination of exchange rates; Liability dollarization.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE	

Financial Aid Hours
Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Optional?	Size
No	20

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Course Description
This is the second half of the international finance sequence. Part I: intertemporal approach to the current account, international real business cycle models, international risk-sharing, gains from financial integration, global imbalances, and exchange rate determination. Part 2: open-economy monetary

Academic Progress Hours
Value
3

Financial Aid Hours
Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

This course has been approved for the following WAYS
Social Inquiry (SI)

Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
2

Does this course satisfy the University Language Requirement?
No

Course Description
Probability, random variables, and distributions; large sample theory; theory of estimation and hypothesis testing; linear econometric models. Limited enrollment. Prerequisites: probability and statistics at the level of Bruce Hansen's textbook "Probability and Statistics for Economists.

determination. Part 2: open economy monetary models and currency unions. Part 3: international finance policy, capital controls and foreign exchange interventions. Part 4: sovereign debt. .
Prerequisites:Econ 210, 211, 212 and 268.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat

Statistics for Economists.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
2	5

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	40

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Spacing
1

Does this course satisfy the University Language Requirement?
No

Course Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	40
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Does this course satisfy the University Language Requirement?
No

Course Description
Second course in the PhD sequence in econometrics at the Economics Department (as Econ 271) and at the GSB (as MGTECON 604). This course presents modern econometric methods with a focus on regression. Among the topics covered are: linear regression and its interpretation, robust inference, asymptotic theory for maximum-likelihood und other extremum estimators, generalized method of moments, Bayesian regression, high-dimensional and non-parametric regression, binary and multinomial discrete choice, resampling methods, linear time-series models, and state-space models. As a prerequisite, this course assumes working knowledge of probability theory and statistics as covered in Econ 270/MGTECON 603. Enrollment is limited to Econ PhD students for the first two weeks of open enrollment, after which the remaining space will be available to all other interested students. Prerequisites: Econ 270/MGTECON 603 or equivalent.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	50

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create

Course Repeatable

Course Description
Methods for modern causal inference, including identification, matching methods, instrumental variables, regression discontinuity designs, difference in differences, synthetic control methods. Prerequisites: Econ 271 or permission of instructor.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override

Course Count	for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use

Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat

Type	Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
2

Does this course satisfy the University Language Requirement?
No

Course Description
Possible topics: parametric asymptotic theory. M and Z estimators. General large sample results for maximum likelihood; nonlinear least squares; and nonlinear instrumental variables estimators including the generalized method of moments estimator under general conditions. Model selection test. Consistent model selection criteria. Nonnested hypothesis testing. Markov chain Monte Carlo methods. Nonparametric and semiparametric methods. Quantile Regression methods.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic

Code	Course Component
DIS	Discussion

Instructor

Contact Hours	Workload Hours
0	0

OEE

Workload Hours	Instruction Mode

Spacing
2

Does this course satisfy the University Language Requirement?
No

Course Description
(Formerly 273B); Possible topics: nonparametric density estimation and regression analysis; sieve approximation; contiguity; convergence of experiments; cross validation; indirect inference; resampling methods: bootstrap and subsampling; quantile regression; nonstandard asymptotic distribution theory; empirical processes; set identification and inference, large sample efficiency and optimality; multiple hypothesis testing; randomization and permutation tests; inference for dependent data.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Code	Course Component
LEC	Lecture

Instructor

Contact Hours	Workload Hours
0	0

OEE

Workload	Instruction

Progress Hours
Value
3

Financial Aid Hours
Value
3

Course Count
1

Course Repeatable for Degree Credit?
No

Total Completions Allowed for Degree Credit
1

Total Units Allowed for Degree Credit
5

Hours
0

Mode
In Person

Enrollment Optional?
Yes

Default Section Size
30

Final Exam
No

Include in Dynamic Date Calc
No

Generate Attendance
No

Auto Create
Yes

Attendance Type
Meeting

Present Use
Yes

Reason Use
Yes

Tardy Use
Yes

Left Use
Yes

Contact Use
Yes

Time Use
Yes

Template Override
No

Exam Seat Spacing
1

Code
LEC

Course Component
Lecture

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Default

Academic Progress Hours
Value
3

Financial Aid Hours
Value
3

Course Count
1

Course Repeatable for Degree Credit?
No

Total Completions Allowed for Degree Credit
1

Total Units Allowed for Degree Credit
5

Hours
0

Mode
In Person

Enrollment Optional?
No

Default Section Size
30

Final Exam
No

Include in Dynamic Date Calc
No

Generate Attendance
No

Auto Create
Yes

Attendance Type
Meeting

Present Use
Yes

Reason Use
Yes

Tardy Use
Yes

Left Use
Yes

Contact Use
Yes

Time Use
Yes

Template Override
No

Exam Seat Spacing
2

Enrollment Optional?	Section Size
No	20
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Does this course satisfy the University Language Requirement?
No

Course Description
This course presents methods for constructing econometric specifications and systems directly based on economic models. One such approach formulates stochastic economic models that give rise to empirically implementable econometric models. The discussion will cover methods for estimating, diagnostic testing, and drawing inferences about the underlying economic primitives, including both parametric and non-parametric identification of economic structures. Applications include models from all fields of empirical microeconomics Industrial

Course Description
Theory and computational methods necessary to implement state-of-the-art econometric methods used in theory-based empirical work. Topics covered include: computation of nonlinear M-estimators subject to equality and inequality constraints, simulation estimators, indirect inference, Markov Chain Monte Carlo methods, resampling (bootstrap and sub-sampling) methods for estimation and inference, dynamic discrete choice models, continuous and discrete mixture models and estimation and inference for partially identified models.

Organization, Labor, Public Finance, and Energy and Environmental Economics. Examples include: consumer demand models integrating corner solutions, intertemporal models of household and firm behavior, and dynamic models of single and multi-agent interactions with complete and incomplete information. These include auction markets, oligopolies, regulator-firm interactions, and nonlinear pricing.. The major theme of the course is to present a general framework for economic theory-based empirical research that allows researchers to recover the underlying economic primitives driving observed outcomes of an economic environment. Prerequisites: Econ 202, 203, 204, 270, 271, 272.

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for	Total Units Allowed for

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
2	5

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
2

Degree Credit	Degree Credit
1	5

Use	Tardy Use
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	30
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
	Contact

Left Use	Use
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

Simple Requisites

ECON275 Prerequisite
Type
Prerequisite

Complete ALL of the following Courses:

- ECON202 - Microeconomics I
- ECON203 - Microeconomics II
- ECON204 - Microeconomics III
- ECON270 - Intermediate Econometrics I
- ECON271 - Intermediate Econometrics II
- ECON272 - Intermediate Econometrics III: Methods for Applied Econometrics

Additional Comments:

Course Description
This is the first part of a three course sequence (along with Econ 279 & 280-formerly 277) on behavioral and experimental economics. The sequence has two main objectives: 1) examines theories and evidence related to the psychology of economic decision making, 2) Introduces methods of experimental economics, and explores major subject areas (including those not falling within behavioral economics) that have been addressed through laboratory experiments. Focuses on series of experiments that build on one another in an effort to test between competing theoretical frameworks, with the objects of improving the explanatory and predictive performance of standard

Course Description
This is part of a three course sequence (along with Econ 278 & 280-formerly 277) on behavioral and experimental economics. The sequence has two main objectives: 1) examines theories and evidence related to the psychology of economic decision making, 2) Introduces methods of experimental economics, and explores major subject areas (including those not falling within behavioral economics) that have been addressed through laboratory experiments. Focuses on series of experiments that build on one another in an effort to test between competing theoretical frameworks, with the objects of improving the explanatory and predictive performance of standard

models, and of providing a foundation for more reliable normative analyses of policy issues. Prerequisites: 204 and 271, or consent of instructor.

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
2	5

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

models, and of providing a foundation for more reliable normative analyses of policy issues. Prerequisites: 204 and 271, or consent of instructor.

Grading Basis

RLT - Letter (ABCD/NP)

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

1

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	30
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?

No

Does this course satisfy the University Language Requirement?

Requirement?
No

Course Description
Economics 280 (formerly ECON 277) is a course primarily directed at graduate students in the Economics department writing dissertations with behavioral or experimental components. Economics 280 is the third part of a three course sequence (along with Econ 278 & 279). The first two quarters, which are taught primarily in lecture format, have two main objectives: 1) examining theories and evidence related to the psychology of economic decision making; 2) introducing methods of experimental economics, and exploring major subject areas (including those not falling within behavioral economics) that have been addressed through laboratory experiments. Focuses on series of experiments that build on one another in an effort to test between competing theoretical frameworks, with the objectives of improving the explanatory and predictive performance of standard models, and of providing a foundation for more reliable normative analyses of policy issues. This third quarter is a practicum, focused on students who have taken (at least one of) the first two quarters and who are now preparing an experimental or behavioral study of their own. Prerequisites: Non-Econ Phd students must complete 204 and 271, or have consent of instructor.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value

Code	Course Component
DIS	Discussion

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Default

Course Description
This is a team-based course where students will work on a project to design and carry out an experiment intended to drive social impact in collaboration with a partner organization. The first few weeks will include lectures, hands-on tutorials, and labs designed to guide students through the process of experimental design in the digital context. Special topics include designing and selecting outcome measures that capture the impact of interventions; multi-stage experiments with applications to chatbots; learning how treatment effects vary across subgroups; adaptive experiments using bandits and artificial intelligence; and estimation of policies that target treatments based on subject characteristics. Experiments may be conducted on the customer base of a partner organization through their digital applications or on recruited subjects, such as subjects recruited to interactive chatbots. The teaching team will provide templates and technical assistance for designing and running the experiments. Students from different disciplinary backgrounds will be assigned roles to work in teams on the project. This course is part of the GSB's Action Learning Program, in which you will work on real business challenges under the guidance of faculty. In this intensive project-based course, you will learn research-validated foundations, tools, and practices; apply these tools and learnings to a real project for an external organization; create value for the organization by providing insights and deliverables; and be an ambassador to the organization by exposing them to the talent, values, and expertise of the GSB. You will also have the opportunity to gain practical industry experience and exposure to the organization, its industry, and the space in which it operates; build relationships in the organization and industry; and gain an understanding of related career paths. Prerequisites: Some experience with statistical analysis and the R statistical package. Students with less experience will have an opportunity to catch up through tutorials provided through the

3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
PRA	Practicum

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

course. Non-GSB students are expected to have an advanced understanding of tools and methods from data science and machine learning as well as a strong familiarity with R, Python, SQL, and other similar high-level programming languages. Prerequisite: Econ 102B or equivalent. Students complete applications and enrollment will be with instructors consent. ECON 281 is for non-GSB students.

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
2	4

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	4

Code	Course Component
WKS	Workshop

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Template

No	30
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Course Description
Basic theories and recent developments in mechanism design and the theory of contracts. Topics include: hidden characteristics and hidden action models with one and many agents, design of mechanisms and markets with limited communication, long-term relationships under commitment and under renegotiation, property rights and theories of the firm.

Grading Basis
ROP - Letter or Credit/No Credit

Units	
Min	**Max**
3	5

Code	**Course Component**
LEC	Lecture

Time Use	**Override**
Yes	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Course Description
This class will focus on several topics in auction market design and related areas. It is an advanced course, intended as a sequel to the more basic market/mechanism/auction design courses offered at the Economics department and the GSB. Students are expected to be familiar with the material in those courses. We will briefly review some basics of auction theory, but the main goal of the class is to bring students closer to doing independent research and introduce them to recent contributions and currently active research areas. Specific topics may include: multi-item and combinatorial auctions; robust auction design; applied auction design with practical

Contact Hours
Value
0

Academic Progress Hours
Value
3

Financial Aid Hours
Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	20

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

applications; matching and pricing on the Internet; radio spectrum auctions; securities markets; commodities; complex procurements. Grading based on presentation, assignment, and term paper.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
2	5

Contact Hours
Value
0

Academic Progress Hours
Value
2

Financial Aid Hours
Value
2

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	25

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing

1

Course Description
Technology has enabled the emergence of economic systems of formerly inconceivable complexity. Nevertheless, some technology-related economic problems are so complex that either supercomputers cannot solve them in a reasonable time, or they are too complex for humans to comprehend. Thus, modern economic designs must still be simple enough for humans to understand, and must address computationally complex problems in an efficient fashion. This topics course explores simplicity and complexity in economics, primarily via theoretical models. We will focus on recent advances. Key topics include (but are not limited to) resource allocation in complex environments, communication complexity and information aggregation in markets, robust mechanisms, dynamic matching theory, influence maximization in networks, and the design of simple (user-friendly) mechanisms. Some applications include paired kidney exchange, auctions for electricity and for radio spectrum, ride-sharing platforms, and the diffusion of information. Prerequisites: Econ 203 or equivalent.

Cross Listed Courses
CS360 SIMPLE/COMPLEX ECON THEORY

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
3	5

Contact Hours

Value
0

Academic Progress Hours

Value
3

Code	Course Component
LEC	Lecture

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Default Enrollment Section

Course Description
This is an introduction to market design, intended mainly for second year PhD students in economics (but also open to other graduate students from around the university and to undergrads who have taken undergrad market design). It will emphasize the combined use of economic theory, experiments, and empirical analysis to analyze and engineer market rules and institutions. In this first quarter we will pay particular attention to matching markets, which are those in which price doesn't do all of the work, and which include some kind of application or selection process. We will also cover some of the basics of auction theory, with a particular emphasis on its connections to matching. In recent years market designers have participated in the design and implementation of a number of marketplaces, and the course will emphasize the relation between theory and practice, for example in the design of labor market clearinghouses for American doctors, school choice programs in a growing number of American cities (including New York and Boston), the allocation of organs for transplantation, online advertising auctions, and the market for transportation. Various forms of market failure will also be discussed. Assignment: One final paper. The objective of the final paper is to study an existing market or an environment with a potential role for a market, describe the relevant market design questions, and evaluate how the current market design works and/or propose improvements on the current design.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
2	5

Contact Hours

Value

Code	Course Component
LEC	Lecture

Instructor Contact Hours

Workload Hours

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Optional?	Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

Course Description
Aims to provide a solid basis in game-theoretic tools and concepts, both for theorists and for students focusing in other fields. Technical material will include solution concepts and refinements, potential games, supermodular games, repeated games, reputation, and

0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Does this course satisfy the University Language Requirement?
No

0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	12

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
2

Course Description
Market design is a field that links the rules of the of the marketplace to understand frictions, externalities and more generally economic outcomes. The course provides theoretical foundations on assignment and matching mechanisms as well as mechanism design

supermodular games, repeated games, reputation, and bargaining models. The class will also address some foundational issues, such as epistemic and evolutionary modeling.Prerequisite: 203 or consent of instructor.

Grading Basis
ROP - Letter or Credit/No Credit

Units	
Min	**Max**
3	5

Contact Hours	
Value	
0	

Academic Progress Hours	
Value	
3	

Financial Aid Hours	
Value	
3	

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat

matching mechanisms as well as mechanism design. Emphasis on theories at the intersection of economics, CS and operations as well as applications that arise in labor markets, organ allocation, platforms. Exposes students to timely market design challenges. Guest lectures and a research project. The class offers an opportunity to begin a research project. Students read and critique papers and write and present a final paper.

Cross Listed Courses
MS&E365 TOPICS IN MARKET DESIGN

Grading Basis
ROP - Letter or Credit/No Credit

Units	
Min	**Max**
3	3

Contact Hours	
Value	
0	

Academic Progress Hours	
Value	
3	

Financial Aid Hours	
Value	
3	

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	20

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Spacing
1

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	20
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Course Description
Topics course covering a variety of game theory topics with emphasis on market design, such as matching theory and auction theory. Final paper required. Prerequisites: ECON 285 or equivalent. ECON 283 recommended.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
2	5

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
SEM	Seminar

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Contact

Course Description
Students and faculty review and present recent research papers on basic theories and economic applications of decision theory, game theory and mechanism design. Applications include market design and analyses of incentives and strategic behavior in markets, and selected topics such as auctions, bargaining, contracting, and computation.

Grading Basis
RSN - Satisfactory/No Credit

Units

Min	Max
3	3

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree	Total Units Allowed for Degree

Code	Course Component
CAS	Case/Problem Study

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	35

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason

Left Use	Use
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Credit	Credit
1	3

Use	Tardy Use
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Simple Requisites

ECON290 Prerequisite
Type
Prerequisite

GSB-no MBA or Sloans

Additional Comments:

Does this course satisfy the University Language Requirement?
No

Course Description
Synthesis of research on social and economic networks by sociologists, economists, computer scientists, physicists, and mathematicians, with an emphasis on modeling. Includes methods for describing and measuring networks, empirical observations about network structure, models of random and strategic network formation, as well as analyses of contagion, diffusion, learning, peer influence, games played on networks, and networked markets.

Grading Basis
ROP - Letter or Credit/No Credit

Units	
Min	**Max**
3	5

Code	Course Component
LEC	Lecture

Course Description
This is an advanced course on quantitative methods for empirical research. Students are expected to have taken a course in linear models before. In this course I will discuss modern econometric methods for nonlinear models, including maximum likelihood and generalized method of moments. The emphasis will be on how these methods are used in sophisticated empirical work in social sciences. Special topics include discrete choice models and methods for estimating treatment effects.

Grading Basis
ROP - Letter or Credit/No Credit

Units	
Min	**Max**
3	5

Code	Course Component
CAS	Case/Problem Study

Contact Hours
Value
0

Academic Progress Hours
Value
3

Financial Aid Hours
Value
3

Course Count
1

Course Repeatable for Degree Credit?
No

Total Completions Allowed for Degree Credit
1

Total Units Allowed for Degree Credit
5

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Enrollment Optional?
No

Default Section Size
30

Final Exam
No

Include in Dynamic Date Calc
No

Generate Attendance
No

Auto Create
Yes

Attendance Type
Meeting

Present Use
Yes

Reason Use
Yes

Tardy Use
Yes

Left Use
Yes

Contact Use
Yes

Time Use
Yes

Template Override
No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

Contact Hours
Value
0

Academic Progress Hours
Value
3

Financial Aid Hours
Value
3

Course Count
1

Course Repeatable for Degree Credit?
No

Total Completions Allowed for Degree Credit
1

Total Units Allowed for Degree Credit
5

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Enrollment Optional?
No

Default Section Size
30

Final Exam
No

Include in Dynamic Date Calc
No

Generate Attendance
No

Auto Create
Yes

Attendance Type
Meeting

Present Use
Yes

Reason Use
Yes

Tardy Use
Yes

Left Use
Yes

Contact Use
Yes

Time Use
Yes

Template Override
No

Exam Seat Spacing
1

Code
DIS

Course Component
Discussion

Instructor Contact

Workload

Hours	Hours
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
Yes	30
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Course Description

This course will cover statistical methods based on the machine learning literature that can be used for causal inference. In economics and the social sciences more broadly, empirical analyses typically estimate the effects of counterfactual policies, such as the effect of implementing a government policy, changing a

Course Description

Continuous-time methods can, in many cases, lead to more powerful models to understand economic phenomena. The Black-Scholes option-pricing formula is significantly more tractable than discrete- time methods of option pricing based on binomial trees. There is an established tradition in continuous-time

price, showing advertisements, or introducing new products. This course will review when and how machine learning methods can be used for causal inference, and it will also review recent modifications and extensions to standard methods to adapt them to causal inference and provide statistical theory for hypothesis testing. We consider causal inference methods based on randomized experiments as well as observational studies, including methods such as instrumental variables and those based on longitudinal data. We consider the estimation of average treatment effects as well as personalized policies. Lectures will focus on theoretical developments, while classwork will consist primarily of empirical applications of the methods. Prerequisite: Prior coursework in basic observational study methods for causal inference, including instrumental variables, fixed effects modeling, regression discontinuity designs, etc. Students should be comfortable reading and engaging with empirical research in economics and related fields. This is crosslisted with MGTECON 634.

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
3	3

Contact Hours

Value

0

Academic Progress Hours

Value

3

Financial Aid Hours

Value

3

Course Repeatable	Code	Course Component
	CAS	Case/Problem Study

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	40

Final Exam	Include in Dynamic Date Calc
No	No

asset pricing, and there is increasing use of these methods in other fields, such as game theory, contract theory, market microstructure and macroeconomics. The goal of this class is to explore some of the old classic research as well as new economic models, and to discover areas of economics where continuous-time methods can help. The intention is to give graduate students a tool, which they can use to gain comparative advantage in their research, when they see appropriate. With this goal in mind, 25% of the class will focus on mathematics, but with economically relevant examples to illustrate the mathematical results. Up to one half of the class will cover established models, and the rest will focus on new papers. If students have their own work that uses continuous time, we can take a look at that as well. Coursework will include biweekly problem sets and a take-home final exam. There will also be room for short student presentations (related to homework assignments, economic papers, or definitions and results related to specific math concepts).

Grading Basis

RLT - Letter (ABCD/NP)

Units

Min	Max
3	3

Contact Hours

Value

0

Academic Progress Hours

Value

3

Financial Aid Hours

Value

3

Course Repeatable	Code	Course Component
	LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	18

Final Exam	Include in Dynamic Date Calc
No	No

Generate	Auto

Course Count	for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	3

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Course Count	for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	3

Attendance	Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

Course Description
This course will explore how the advances in AI can and will transform our economy and society in the coming years. Each week, we will learn from a guest speaker at the frontier of AI, economics, government or industry, read the relevant research, and discuss the implications. Primarily for graduate students in economics, business or computer science. Enrollment by application, opening in February 2024: https://digitaleconomy.stanford.edu/about/the-ai-awakening-implications-for-the-economy-and-society/

Grading Basis
RLT - Letter (ABCD/NP)

Units

Min	Max
3	3

Contact Hours

Value
0

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE

Course Description
Students obtain employment in a relevant research or industrial activity to enhance their professional experience consistent with their degree programs. At the start of the quarter, students must submit a one page statement showing the relevance of the employment to the degree program along with an offer letter. Submit this documentation to the Econ professor, who has agreed to the student enrolling in their Econ 299 section. At the end of the quarter, a three page final report must be supplied documenting work done and relevance to degree program. May be repeated for credit.

Grading Basis
RSN - Satisfactory/No Credit

Units

Min	Max
1	10

Contact Hours

Value

Code	Course Component
INS	Individual Study

Instructor Contact Hours	Workload Hours

Academic Progress Hours
Value
3

Financial Aid Hours
Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	3

Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	18

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

0

Academic Progress Hours
Value
1

Financial Aid Hours
Value
1

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

Hours	Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	999

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

Enrollment Optional?	Default Section Size
No	18
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Free Form Requirements
Department Approval Required

Course Description
10 weekly one-on-one conversations with Nobel Laureates and MacArthur fellows, talking about their life story, how they got to their ideas, what they discovered, how the world is a better place as a result, what advice they have for students and young researchers, etc. Readings related to guest research will be assigned. Open to undergraduate and graduate students.

Cross Listed Courses	Grading Basis
SOC5 BIG IDEAS LECTURE SERIES, CHEM5 BIG IDEAS	RSN - Satisfactory/No Credit

Course Description
Restricted to Economics Ph.D. students. Students present current research. May be repeated for credit.

Grading Basis
RSN - Satisfactory/No Credit

Units

Min	Max
3	10

Contact Hours

Code	Course Component
DIS	Discussion
Instructor Contact Hours	**Workload Hours**

SERIES; CHEMS BIG IDEAS Credit
LECTURE SERIES

Units

Min	Max
1	1

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Value
1

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	18

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

Hours	Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
SEM	Seminar

Instructor Contact Hours	Workload Hours
0	0

OEE

Workload Hours	Instruction Mode
0	In Person
Enrollment Optional?	**Default Section Size**
No	30
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Course Description
Macroeconomic Seminar
Grading Basis
RSN - Satisfactory/No Credit

Units	
Min	**Max**
1	10

Code	Course Component
SEM	Seminar

Course Description
Information and meeting times are available on the Department of Economics Website: https://economics.stanford.edu/seminars-events/list-seminars
Grading Basis
RSN - Satisfactory/No Credit

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Value
1

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	20

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

Units

Min	Max
1	10

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Value
1

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

Code	Course Component
SEM	Seminar

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	32

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

Course Description
May be repeated for credit. Information and meeting times are available on the Department of Economics Website: https://economics.stanford.edu/seminars-events/list-seminars

Grading Basis
RSN - Satisfactory/No Credit

Units

Min	Max
1	10

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Value
1

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

Code	Course Component
SEM	Seminar

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	15

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Course Description
Field seminar in experimental and behavioral economics.

Grading Basis
RSN - Satisfactory/No Credit

Units

Min	Max
1	10

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Value
1

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

Code	Course Component
WKS	Workshop

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Enrollment Optional?
0	No

Default Section Size	Final Exam
30	No

Include in Dynamic Date Calc	Generate Attendance
No	No

Auto Create	Exam Seat Spacing
Yes	1

Does this course satisfy the University Language Requirement?
No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

Course Description
Issues in measuring and evaluating the economic performance of government tax, expenditure, debt, and regulatory policies; their effects on levels and distribution of income, wealth, and environmental quality; alternative policies and methods of evaluation. Workshop format combines student research, faculty presentations, and guest speakers. Prerequisite: ECON 241 or consent of instructor.

Grading Basis
RSN - Satisfactory/No Credit

Units

Min	Max
1	10

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Value
1

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Grading Basis
RSN - Satisfactory/No Credit

Units

Min	Max
1	10

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Value
1

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

Code	Course Component
SEM	Seminar

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	32

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use

1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
SEM	Seminar

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	8

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

Reason Use	Tardy Use
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Course Description
This seminar will examine current research by lawyers and economists on a variety of topics in law and economics. Several sessions of the seminar will consist of an invited speaker, usually from another university, who will discuss his or her current research. Representative of these sessions have been discussions of compensation for government regulations and takings, liability rules for controlling accidents, the definition of markets in antitrust analysis, the role of the government as a controlling shareholder, and optimal drug patent length. Contact the instructor listed for the class to request permission to enroll. Cross-listed with the Law School (Law 7506 and Law 7507).

Grading Basis
RSN - Satisfactory/No Credit

Units

Min	Max
2	3

Contact Hours

Value
0

Code	Course Component
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0

Course Description
Information and meeting times are available on the Department of Economics Website: https://economics.stanford.edu/seminars-events/list-seminars

Grading Basis
RSN - Satisfactory/No Credit

Units

Min	Max
1	10

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Value

Code	Course Component
SEM	Seminar
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	10
	Include in

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	3

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	18

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

Grading Basis
RSN - Satisfactory/No Credit

Units

Min	Max
1	10

Code	Course Component
DIS	Discussion

Instructor

1

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

Course Description
Information and meeting times are available on the Department of Economics Website: https://economics.stanford.edu/seminars-events/list-seminars

Grading Basis

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Value
1

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

Instructor

Contact Hours	Workload Hours
0	0

OEE Workload Hours	Enrollment Optional?
0	Yes

Default Section Size	Final Exam
10	No

Include in Dynamic Date Calc	Generate Attendance
No	No

Auto Create	Exam Seat Spacing
No	1

Code	Course Component
SEM	Seminar

Instructor

Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	7

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

RSN - Satisfactory/No Credit

Units

Min	Max
1	10

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Value
1

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

Does this course satisfy the University Language Requirement?
No

Code	Course Component
SEM	Seminar

Instructor

Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	2

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Grading Basis
RSN - Satisfactory/No Credit

Units

Min	Max
1	10

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Value
1

Code	**Course Component**
SEM	Seminar
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	50
Final Exam	**Include in Dynamic Date Calc**

Course Description
Should the U.S. close its border to immigrants? What are the ramifications of income inequality? How has COVID-19 changed life as we know it? Why are Americans so politically polarized? How can we address racial injustice? As the 2020 election approaches, faculty members from across Stanford will explore and examine some of the biggest challenges facing society today. Each week will be dedicated to a different topic, ranging from health care and the economy to racial injustice and challenges to democracy. Faculty with expertise in philosophy, economics, law, political science, psychology, medicine, history, and more will come together for lively conversations about the issues not only shaping this election season but also the nation and world at large. There will also be a Q&A following the initial discussion. Attendance and supplemental course readings are the only requirements for the course.

Cross Listed Courses	Grading Basis
PUBLPOL4 DEMOCRACY	RSN - Satisfactory/No

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

MATTERS, PHIL30 DEMOCRACY MATTERS, POLISCI42 DEMOCRACY MATTERS

Credit

Units

Min	Max
1	1

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Value
1

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	Remote Synchronous

Enrollment Optional?	Default Section Size
No	999

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Course Description
Pre-TGR dissertation research.(Staff)
Grading Basis
RSN - Satisfactory/No Credit

Units

Min	Max
1	15

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Value
1

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
99	999

Code	Course Component
T/D	Thesis/Dissertation

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	Independent Studies

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Left Use	Contact Use
No	No

Time Use	Template Override
No	No

Exam Seat

Course Description
This course will provide an introduction to applied microeconomics and data analysis. The course material will derive from academic journal articles on a variety of fun topics, such as penalty kicks in soccer, copyright law for opera, and the economic costs of the Mafia. Students will learn to interpret regression equations, tables, figures, and other results from academic papers. The course will teach very basic regression tools and skills for implementing these tools in R. Students will be required to complete three problem sets involving coding in R, along with weekly write-ups about the topics covered. Prerequisite: Econ 1
Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
2	2

Contact Hours

Value
0

Academic Progress Hours

Value
2

Financial Aid Hours

Value
2

Course Count	Course Repeatable for Degree Credit?
1	No

Total

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	40

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

Completions Allowed for Degree Credit
1

Total Units Allowed for Degree Credit
2

Reason Use
Yes

Tardy Use
Yes

Left Use
Yes

Contact Use
Yes

Time Use
Yes

Template Override
No

Exam Seat Spacing
1

Simple Requisites

ECON41 Prerequisite
Type
Prerequisite

ECON41 Prerequisite

Complete at least 1 of the following courses:
- ECON1 - Principles of Economics

Additional Comments:

Does this course satisfy the University Language Requirement?
No

Course Description
The purpose of the class is for you to obtain greater comfort making the major financial decisions your life journey will require. Illustrative examples, case studies, historical and statistical evidence, and some simple analytical tools will be presented. Small breakout sessions with other students will focus on applying the material to developing and analyzing the options available to you and the tradeoffs among them in the situations you will face, from job choice to home purchase to investing. We hope to help students avoid damaging mistakes in the decisions that will determine their financial flexibility and safeguard them against

Course Description
The purpose of the class is to introduce you to the modern financial system. What are the major financial instruments -- bonds, bank loans and also equity - and how are their prices determined. What are the key financial institutions that lend, provide liquidity and make markets. What role does the government play through regulation, monetary policy and special intervention in crisis time. We'll devote particular attention to the payments system: how do households and firms make payments, how do financial institutions organize these payments, and how could this business change with potential entry of new digital currencies,

life's uncertainties. Students will learn how to keep more options open and to live with fewer constraints by making sound financial decisions. Topics include making a financial plan and budget, managing money, obtaining and using credit and loans, saving, investing in stocks, bonds, mutual funds, ETFs, options and other assets, venture capital and private equity, purchasing insurance, purchasing vs. renting a home, getting a mortgage, taxes, inflation and inflation protection, financial markets and financial advisors.

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

provided by central banks or the private sector. This course is intended for freshmen and sophomores. Prerequisites: Econ 1 is recommended.

Grading Basis

ROP - Letter or Credit/No Credit

Units

Min	Max
3	3

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	3

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	Remote Synchronous

Enrollment Optional?	Default Section Size
Yes	20

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Code	**Course Component**
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	999
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**

Code	**Course Component**
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	Remote Synchronous
Enrollment Optional?	**Default Section Size**
No	40
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
1	

Simple Requisites

Yes No

Exam Seat Spacing
1

This course has been approved for the following WAYS
Social Inquiry (SI)

Does this course satisfy the University Language Requirement?
No

ECON44 Prerequisite

Type
Prerequisite

Must be a Freshmen or Sophomore to enroll in this class.

Additional Comments:

Does this course satisfy the University Language Requirement?
No

Course Description
Two threads are interwoven: why social and economic networks have special features, and how those features shape power, opinions, opportunities, and behaviors. Some of the topics included are: the different ways in which a person's position in a network determines their influence; which systematic errors people make when forming opinions based on what they learn from others; how financial contagions work and why are they different from the spread of a flu; the role of splits in our social networks in inequality, immobility, and polarization; and how network patterns of trade and globalization have changed international conflict and wars. The course requires analyzing network data, which will be provided. No prerequisite but Econ 102A or equivalent is recommended.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Code	Course Component
DIS	Discussion

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Course Description
This class will apply tools from economics and related social sciences to study the functioning of media markets and their impact on society. The guiding question will be: when and how do media best serve the social good? Topics will include the economics of two-sided markets, media bias, polarization, social media, fake news, advertising, propaganda, effects of media on children, media and crime, and the role of media in corruption, protests and censorship. The course will give students a non-technical introduction to social science empirical methods, including regression analysis, causal inference, experimental and quasi-experimental methods, and machine learning.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Code	Course Component
DIS	Discussion

Instructor Contact Hours
0

Workload Hours
0

OEE Workload Hours
0

Instruction Mode
In Person

Default Enrollment Section

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Include in

Optional?	Size
No	999
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

This course has been approved for the following WAYS
Social Inquiry (SI), Applied Quantitative Reasoning (AQR)

Does this course satisfy the University Language Requirement?
No

Course Description
Why don't we have an HIV vaccine, or a cure for Alzheimer's disease? Why weren't we better prepared for a pandemic? A variety of evidence suggests market incentives - such as provided by policies ranging from patent law to public health insurance - are a critical determinant of which potential technologies successfully make the transition from the lab to the market. This course articulates the key market failures justifying government intervention in biomedical

Final Exam	Dynamic Date Calc
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	Yes
Reason Use	**Tardy Use**
Yes	Yes
Left Use	**Contact Use**
Yes	Yes
Time Use	**Template Override**
Yes	No
Exam Seat Spacing	
2	

This course has been approved for the following WAYS
Social Inquiry (SI), Applied Quantitative Reasoning (AQR)

Does this course satisfy the University Language Requirement?
No

Course Description
Interested in exploring how economics is used in professional, policy, and research settings? This course will feature weekly presentations from Stanford faculty and scholars and economists in government, non-profit, and business to demonstrate how economic analysis can be applied to a wide range of practical and policy problems. May be repeated for credit. Pre-requisites: none.

Grading Basis

innovation markets, reviews theory and evidence on the legal instruments governments use to intervene in these markets, and considers leading proposals for legal reform. We close by discussing links between biomedical innovation and inequality. No prerequisites. Elements used in grading: class participation, attendance, and short writing assignments. Undergraduates: letter grade only.

Grading Basis

RLT - Letter (ABCD/NP)

Units

Min	Max
3	3

Contact Hours

Value
0

Academic Progress Hours

Value
3

Financial Aid Hours

Value
3

Course Count	Course Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	3

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	999

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

| Template

RSN - Satisfactory/No Credit

Units

Min	Max
1	1

Contact Hours

Value
0

Academic Progress Hours

Value
1

Financial Aid Hours

Value
1

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
4	4

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
1

Time Use	Override
Yes	No

Exam Seat Spacing
1

Does this course satisfy the University Language Requirement?
No

Course Description
Individual consumer and firm behavior under perfect competition. The role of markets and prices in a decentralized economy. Monopoly in partial equilibrium. Economic tools developed from multivariable calculus using partial differentiation and techniques for constrained and unconstrained optimization. Prerequisites: Econ 1 or 1V, and Math 51 or Math 51A or CME 100 or CME 100A.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	30

Final Exam	Include in Dynamic Date Calc
No	No

Generate	Auto

Course Description
Neoclassical analysis of general equilibrium, welfare economics, imperfect competition, externalities and public goods, risk and uncertainty, game theory, adverse selection, and moral hazard. Multivariate calculus is used. Prerequisite: ECON 50.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	25

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance	Present

Course Count	Repeatable for Degree Credit?
1	No

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
2

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	200

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	Yes

Reason Use	Tardy Use
Yes	Yes

Left Use	Contact Use
Yes	Yes

Time Use	Template Override
Yes	No

Exam Seat Spacing
2

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit
1	5

Code	Course Component
LEC	Lecture

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	100

Final Exam	Include in Dynamic Date Calc
Yes	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Type
Meeting

Use
No

Reason Use
No

Tardy Use
No

Left Use
No

Contact Use
No

Time Use
No

Template Override
No

Exam Seat Spacing
2

Simple Requisites

ECON50 Prerequisite
Type
Prerequisite

Fulfill ALL of the following requirements:

Complete at least 1 of the following courses:
- ECON1 - Principles of Economics
- ECON1V - Principles of Economics

Complete at least 1 of the following courses:
- MATH51 - Linear Algebra, Multivariable Calculus, and Modern Applications
- MATH51A - Linear Algebra, Multivariable Calculus, and Modern Applications, ACE
- MATH61CM - Modern Mathematics: Continuous Methods
- CME100 - Vector Calculus for Engineers
- ENGR154 - Vector Calculus for Engineers
- CME100ACE - Vector Calculus for Engineers, ACE (Inactive)

Reason Use
No

Tardy Use
No

Left Use
No

Contact Use
No

Time Use
No

Template Override
No

Exam Seat Spacing
2

Simple Requisites

ECON51 Prerequisite
Type
Prerequisite

ECON51 Prerequisite

Complete at least 1 of the following courses:
- ECON50 - Economic Analysis I

Additional Comments:

This course has been approved for the following WAYS
Formal Reasoning (FR), Social Inquiry (SI)

Does this course satisfy the University Language Requirement?
No

Engineers, ACE (Inactive)

Additional Comments:

This course has been approved for the following WAYS
Formal Reasoning (FR), Social Inquiry (SI)

Does this course satisfy the University Language Requirement?
No

Course Description
Long-run economic growth and short-run economic fluctuations. Focus on the macroeconomic tools of government: fiscal policy (spending and taxes) and monetary policy, and their effects on growth, employment, and inflation. Prerequisites: ECON 50.

Grading Basis
ROP - Letter or Credit/No Credit

Units

Min	Max
5	5

Contact Hours

Value
0

Academic Progress Hours

Value
5

Financial Aid Hours

Value
5

Course Count	Course Repeatable for Degree Credit?
1	No

Code	Course Component
DIS	Discussion

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
Yes	25

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance	Present

Grading Basis
RTG - TGR

Units

Min	Max
0	0

Contact Hours

Value
0

Academic Progress Hours

Value
8

Financial Aid Hours

Value
8

Course Count	Course Repeatable for Degree Credit?
1	Yes

Total Completions Allowed for Degree Credit	Total Units Allowed for Degree Credit

Code	Course Component
T/D	Thesis/Dissert

Instructor Contact Hours	Workload Hours
0	0

OEE Workload Hours	Instruction Mode
0	In Person

Enrollment Optional?	Default Section Size
No	999

Final Exam	Include in Dynamic Date Calc
No	No

Generate Attendance	Auto Create
No	Yes

Attendance Type	Present Use
Meeting	No

Reason Use	Tardy Use
No	No

Total Completions Allowed for Degree Credit	**Total Units Allowed for Degree Credit**
1	5

Type	**Use**
Meeting	Yes
Reason	
Use	**Tardy Use**
Yes	Yes
	Contact
Left Use	**Use**
Yes	Yes
	Template
Time Use	**Override**
Yes	No
Exam Seat Spacing	
1	

Code	**Course Component**
LEC	Lecture
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
0	In Person
Enrollment Optional?	**Default Section Size**
No	200
Final Exam	**Include in Dynamic Date Calc**
Yes	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason	

99 999

Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No

Reason Use	Tardy Use
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
2	

Simple Requisites

ECON52 Prerequisite

Type
Prerequisite

ECON52 Prerequisite

Complete at least 1 of the following courses:

- ECON50 - Economic Analysis I

Additional Comments:

This course has been approved for the following WAYS	Does this course satisfy the University Language Requirement?
Social Inquiry (SI)	No

Grading Basis
RTG - TGR

Units

Min	Max
0	0

Contact Hours

Value
0

Academic Progress Hours

Code	Course Component
T/D	Thesis/Dissertation
Instructor Contact Hours	**Workload Hours**
0	0
OEE Workload Hours	**Instruction Mode**
	Independent

Progress Hours
Value
8

Financial Aid Hours
Value
8

Course Count	**Course Repeatable for Degree Credit?**
1	Yes
Total Completions Allowed for Degree Credit	**Total Units Allowed for Degree Credit**
99	999

0	Studies
Enrollment Optional?	**Default Section Size**
No	999
Final Exam	**Include in Dynamic Date Calc**
No	No
Generate Attendance	**Auto Create**
No	Yes
Attendance Type	**Present Use**
Meeting	No
Reason Use	**Tardy Use**
No	No
Left Use	**Contact Use**
No	No
Time Use	**Template Override**
No	No
Exam Seat Spacing	
1	

Does this course satisfy the University Language Requirement?
No