

Sociology—SOC

- 869 Community and Conservation**
Fall of even years. Summer of even years. 3 credits. Interdepartmental with Fisheries and Wildlife; Resource Development. RB: Social Science methods, social science theory and environmental coursework.
Use of experiential, participatory, field-based mode of inquiry to develop understanding of social and cultural issues associated with conservation. Understanding of different social positions and perspectives.
- 870 Theories of Social Psychology**
Spring. 3(3-0) R: Open only to graduate students in Sociology or Sociology-Urban Studies.
Theoretical perspectives in social psychology. Cognitive processes, group processes, and the self.
- 872 Social Psychology of Health Care**
Fall. 3(3-0) R: Open only to graduate students in Sociology or Sociology-Urban Studies.
Social psychological aspects of help-seeking behavior. Provider, patient, and family interactions and role relationships. Medical deviance. Compliance, mental health, and stress. Health beliefs and behavior.
- 873 Social Organization of Health and Medicine**
Spring. 3(3-0) R: Open only to graduate students in Sociology or Sociology-Urban Studies.
Organization, delivery, and financing of health care. Public health systems, professional training and associations, and technology. International comparisons.
- 881 Analysis of Social Data I**
Fall. 3(2-2) RB: One course in statistics. R: Open only to graduate students in Sociology, Sociology-Urban Studies, Social Science, and Education with a Sociology cognate.
Applications of statistical techniques to social science data. Multiple regression and SPSS. Interpretation, strengths, and weaknesses of various statistical practices.
- 882 Analysis of Social Data II**
Spring. 3(2-2) RB: (SOC 881) R: Open only to graduate students in Sociology, Social Science, and Education with a Sociology cognate.
Applications of multiple regression, path analysis, and factor analysis to social science data. Interpretation, strengths, and weaknesses of commonly used statistical practices.
- 885 Methods of Sociological Inquiry**
Spring. 3(3-0) R: Open only to graduate students in Sociology or Sociology-Urban Studies or approval of department.
Methods of social science. Comparison of methods. Philosophy of science and social science. Epistemology.
- 890 Individual Readings**
Fall, Spring, Summer. 1 to 9 credits. A student may earn a maximum of 16 credits in all enrollments for this course. R: Approval of department.
Faculty-supervised readings in Sociology.
- 899 Master's Thesis Research**
Fall, Spring, Summer. 1 to 9 credits. A student may earn a maximum of 16 credits in all enrollments for this course.
Master's thesis research.
- 931 Topics in Structural Inequality**
Fall of even years. 3(3-0) R: Open only to graduate students in Sociology or Sociology-Urban Studies.
Current research on socioeconomic class, gender inequality, racial and ethnic inequality, power structures, social conflict, urban dynamics, or social change.
- 950 Topics in Rural and Environmental Studies**
Spring of even years. 3(3-0) A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to graduate students in Sociology or Sociology-Urban Studies.
Adoption of innovations, consolidation of food production enterprises, or community response to farm crises.
- 954 Techniques of Population Analysis**
Spring of odd years. 3(3-0) R: Open only to graduate students in Sociology or Sociology-Urban Studies.
Global sources of demographic data. Characteristics of populations. Life table modeling, fertility, mortality, and migration. Reliability of data and validity of models.
- 970 Topics in Wellbeing and Health**
Spring of even years. 3(3-0) R: Open only to graduate students in Sociology or Sociology-Urban Studies.
Topics such as family work and stress, risk and uncertainty, social epidemiology, and life course.
- 973 Social Analysis of Work**
Fall of even years. 3(3-0) RB: (SOC 871) R: Open only to graduate students in the Sociology major or the Sociology-Urban Studies major.
Occupational structures, work settings, functions and meanings of work. Mobility and career patterns. Applications to health and medicine.
- 974 Social Attitudes**
Fall of odd years. 3(3-0) RB: (SOC 870 or SOC 872) R: Open only to graduate students in Sociology or Sociology-Urban Studies.
Attitude and behavior measurement. Structure and function of social attitudes. Persuasion and attitude change.
- 977 Social Epidemiology**
Spring of odd years. 3(3-0) RB: (SOC 851 or SOC 872 or SOC 873) R: Open only to graduate students in Sociology or Sociology-Urban Studies.
Social, economic, and ecological factors in health problems within a community or society. Application of social models and methods to epidemiology. Social policies of health promotion and disease prevention.
- 985 Qualitative Field Research**
Fall. 3(3-0) R: Open only to graduate students in Sociology or Sociology-Urban Studies.
Qualitative research methods. Participant observation, interview, and field documents. Design, data gathering, and analysis.
- 986 Survey Research Principles**
Spring. 3(3-0) RB: (SOC 881) R: Open only to graduate students in Sociology or Sociology-Urban Studies.
Design, analysis, sampling, questionnaire construction, interviewing, and data processing.

- 989 Topics in Sociological Methodology**
Fall of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to graduate students in Sociology or Sociology-Urban Studies. Approval of department.
Evaluation research, experimental or comparative research methods.
- 999 Doctoral Dissertation Research**
Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 99 credits in all enrollments for this course.
Doctoral dissertation research.

SPANISH

SPN

Department of Spanish and Portuguese College of Arts and Letters

- 101 Elementary Spanish I**
Fall, Spring, Summer. 4(4-1) Not open to students with credit in SPN 150.
Practice in using and understanding Spanish to develop listening, speaking, reading, and writing skills. Pronunciation, grammar, vocabulary, and cultural topics.
- 102 Elementary Spanish II**
Fall, Spring. 4(4-1) P:M: (SPN 101) or designated score on Spanish placement test. Not open to students with credit in SPN 150.
Further practice in using and understanding Spanish to develop listening, speaking, reading, and writing skills. Pronunciation, grammar, vocabulary, and cultural topics.
- 150 Intensive Review of Elementary Spanish**
Fall, Spring. 5(5-1) P:M: Designated score on Spanish placement test. RB: Two years of high school Spanish or equivalent. R: Open to students with high school credit in Spanish. Not open to students with credit in SPN 101 or SPN 102.
Intensive review of elementary-level Spanish for students who have had at least two years of Spanish at the secondary-level and who need to strengthen communication skills and knowledge of Spanish language and culture.
- 175 Spanish for Heritage Speakers I**
Fall, Summer. 3(3-0) RB: Exposure to Spanish at home or in the community equivalent of less than two years of high school Spanish. R: Approval of department.
Development of listening, speaking, reading, and writing skills in Spanish for students with Spanish language background but little or no formal exposure.
- 201 Second Year Spanish I**
Fall, Spring. 4(4-0) P:M: (SPN 102 or SPN 150) or designated score on Spanish placement test.
Intermediate-level review and development of aural comprehension, speaking, reading, and writing skills. Topics in the cultures of the Spanish-speaking world.

- 202 Second-Year Spanish II**
Fall, Spring. 4(4-0) P:M: (SPN 201) or designated score on Spanish placement test.
Further review and development of aural comprehension, speaking, reading, and writing skills. Topics in the cultures of the Spanish-speaking world.
- 250 Intensive Intermediate Spanish**
Fall, Spring. 6(5-2) P:M: (SPN 150 or SPN 102) or designated score on Spanish placement test. RB: Study Abroad experience in a Spanish-speaking country R: Approval of department. Not open to students with credit in SPN 201 or SPN 202.
Intensive accelerated intermediate-level Spanish. Development of aural comprehension, speaking, reading and writing skills. Topics in the cultures of the Spanish-speaking world. Strengthen communication skills and cross-cultural understanding.
- 275 Spanish for Heritage Speakers II**
Spring. 3(3-0) RB: Exposure to Spanish at home or in the community equivalent of two to four years of high school Spanish. R: Approval of department.
Further development of listening, speaking, reading, and writing skills in Spanish for students with Spanish language background and little formal exposure.
- 290 Independent Study**
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Approval of department.
Special projects at the intermediate level arranged by an individual student and supervised by a faculty member in areas supplementing, but not replacing, regular course offerings.
- 310 Basic Spanish Grammar**
Fall, Spring. 3(3-0) P:M: (SPN 202 or SPN 250) or designated score on Spanish placement test.
Instruction and practice in the basic structural patterns of Spanish.
- 320 Cultural Readings and Composition (W)**
Fall, Spring. 3(3-0) P:M: (SPN 310) and completion of Tier I writing requirement.
Readings from texts that discuss or embody Hispanic culture, and writing based on those readings.
- 330 Phonetics and Pronunciation**
Fall, Spring. 3(3-0) P:M: (SPN 202 or SPN 250) or designated score on Spanish placement test.
Phonetic description of the sound system of Spanish, developed linguistically and applied to the improvement of pronunciation and spoken Spanish.
- 342 Media and Conversation**
Fall, Spring. 3(3-0) SA: SPN 340 C: SPN 330 concurrently.
Discussion in Spanish via journalistic and entertainment media and exposure.
- 350 Introduction to Reading Hispanic Literature (W)**
Fall, Spring. 3(3-0) P:M: (SPN 320) and completion of Tier I writing requirement.
Close reading of poetry, drama, and prose.
- 412 Topics in Hispanic Culture**
Fall of even years. 3(3-0) P:M: (SPN 320) SA: SPN 410
Analysis of diverse forms of cultural expression in the Spanish-speaking world.
- 420 Spain and its Literature**
Fall, Spring. 3(3-0) P:M: (SPN 350)
Survey of literature written in Spain from the Middle Ages to the present.
- 432 Latin America and its Literature**
Fall, Spring. 3(3-0) P:M: (SPN 350)
Survey of literature written in Spanish-speaking Latin America from the Colonial Period to the present.
- 440 The Structure of Spanish**
Fall, Spring. 3(3-0) P:M: (SPN 330) and (LIN 200 and LIN 401 and ROM 401 and ENG 302)
Overview of linguistic approaches to understanding the Spanish language.
- 452 Topics in Spanish Language I (I)**
Fall, Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P:M: (SPN 320 and SPN 330 and SPN 342) SA: SPN 450
Improvement of language skills through applied practice.
- 462 Topics in Spanish Literature**
Fall. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P:M: (SPN 420) SA: SPN 460
Thematic topics in Spanish literature.
- 472 Topics in the Literatures of the Americas**
Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P:M: (SPN 432) SA: SPN 470
Thematic topics in the literature of the Spanish-speaking Americas.
- 482 Topics in Spanish Linguistics**
Fall of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P:M: (SPN 440) SA: SPN 480
Advanced study of the structure and usage of Spanish.
- 490 Independent Study**
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Approval of department.
Special project at the advanced level arranged by an individual student and supervised by a faculty member in an area supplementing, but not replacing, regular course offerings.
- 491 Special Topics in Spanish**
Fall, Spring, Summer. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.
Special topics supplementing regular course offerings, proposed by faculty on a group study basis.
- 492 Senior Writing Project**
Fall, Spring, Summer. 1(1-0) R: Open only to seniors in Spanish.
Research and preparation of a paper on an interdisciplinary subject that synthesizes at least three areas of a major's undergraduate education. Students work under the supervision of a faculty member.
- 805 Evolution of the Spanish Language**
Spring of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.
Phonology, morphology and syntax of Spanish from its origins to the present.
- 806 Topics in Hispanic Linguistics**
Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.
Issues in Spanish language in relation to current linguistic inquiry. Topics vary.
- 807 Literary Theory**
Fall of even years. 3(3-0) RB: B.A. in Spanish or equivalent
Contemporary approaches to literary study.
- 810 Literature of the Reconquest**
Fall of even years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: B.A. in Spanish or equivalent.
Works, genres, and writers of the Reconquest. Topics vary.
- 815 Literature of Early Modern Spain**
Spring of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: B.A. in Spanish or equivalent
Poetry, drama, and prose of 16th and 17th century Spain. Topics vary.
- 830 Spanish Literature of the 20th-Century**
Spring of even years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: B.A. in Spanish or equivalent
Authors, generations, and tendencies that shape the directions of Spanish literature in the 20th-Century. Topics vary.
- 835 Colonial Latin American Literature**
Spring of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: B.A. in Spanish or equivalent
Major authors and movements of the Colonial period. Topics vary.
- 836 19th-Century Latin American Literature**
Fall of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.
Major authors and movements of 19th-Century Latin America. Topics vary.
- 840 20th-Century Latin American Literature**
Spring of even years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: B.A. in Spanish or equivalent
Poetry, drama, prose, fiction, and essay of Latin America. Topics vary.
- 871 Seminar in Hispanic Literature and Society**
Fall. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.
Intensive study of Hispanic cultures and literatures. Topics vary.
- 872 Seminar in Literary Trends in the Hispanic World**
Fall of even years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.
Intensive study of the cultural approach of Hispanic literary trends. Topics vary.
- 873 Seminar in Major Hispanic Authors**
Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.
Major Hispanic authors. Topics vary.

Spanish—SPN

874 Seminar in Hispanic Literary Genres
Spring of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.

Hispanic literary genres, including prose, poetry, theater, and essays. Topics vary.

875 Seminar in Popular Culture in the Hispanic World
Fall of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: M.A. in Spanish or Hispanic cultural studies or the equivalent.

Popular Hispanic cultures. Topics vary.

876 Seminar in Gender Studies in the Hispanic World
Fall of even years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: M.A. in Spanish or Hispanic cultural studies or the equivalent

Gender studies including feminism and masculine identities.

877 Seminar in Visual Arts/Performance Studies in the Hispanic World
Spring of even years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: M.A. in Spanish or Hispanic cultural studies or the equivalent.

Visual arts and performance studies, including theater, television, cinema. Topics vary.

878 Seminar in Hispanic Cinema
Spring of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: M.A. in Spanish or Hispanic cultural studies or the equivalent.

Hispanic cinema. Topics vary.

879 Seminar in Literature and Culture of the Borderlands
Fall of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.

Literatures and cultures of the Hispanic borderlands, including Latin America, Catalan, Basque. Topics vary.

880 Seminar in Colonial and Post-Colonial Studies
Spring of even years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.

Colonial and post-colonial studies. Topics vary.

890 Independent Study
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department.

Special projects, directed reading, and research arranged by an individual graduate student and a faculty member in areas supplementing regular course offerings.

891 Special Topics in Spanish
Fall, Spring, Summer. 3(3-0) A student may earn a maximum of 15 credits in all enrollments for this course. R: Approval of department.

Special topics supplementing regular course offerings proposed by faculty on a group study basis.

893 Interdisciplinary Seminar
Fall, Spring, Summer. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with German; English; French. Administered by Department of Linguistics and Germanic, Slavic, Asian and African Languages. R: Approval of department.

Examination of a theme, topic, or genre from several different national and disciplinary perspectives in the appropriate cultural and socio-historical context. Significant texts and important critical analysis selected from Great Britain, Spain, France, Germany, the Americas, and others.

999 Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Approval of department.

Doctoral dissertation research.

STATISTICS AND PROBABILITY STT

Department of Statistics and Probability College of Natural Science

200 Statistical Methods
Fall, Spring, Summer. 3(4-0) P:M: (MTH 103 or MTH 110 or MTH 116 or MTH 124 or MTH 132 or LBS 117 or LBS 118) or designated score on Mathematics placement test. Not open to students with credit in STT 201 or STT 315 or STT 421.

Data analysis, probability models, random variables, estimation, tests of hypotheses, confidence intervals, and simple linear regression.

201 Statistical Methods
Fall, Spring, Summer. 4(3-2) P:M: (MTH 103 or MTH 110 or MTH 116 or MTH 124 or MTH 132 or LBS 117 or LBS 118) or designated score on Mathematics placement test. Not open to students with credit in STT 200 or STT 315 or STT 421.

Probability and statistics with computer applications. Data analysis, probability models, random variables, tests of hypotheses, confidence intervals, simple linear regression. Weekly lab using statistical software.

231 Statistics for Scientists
Fall, Spring. 3(3-0) P:M: (MTH 124 or MTH 132 or MTH 152H or LBS 118) R: Open only to students in College of Natural Science. SA: STT 331

Calculus based course in probability and statistics. Probability models, random variables. Estimation, confidence intervals, tests of hypotheses, simple linear regression with applications in sciences.

290 Topics in Statistics and Probability
Fall, Spring, Summer. 1 to 3 credits. RB: (MTH 103) R: Approval of department.

Individualized study of selected topics.

315 Introduction to Probability and Statistics for Business
Fall, Spring, Summer. 3(4-0) P:M: (MTH 124 or MTH 132 or MTH 152H or LBS 118) Not open to students with credit in STT 200 or STT 201 or STT 421.

A first course in probability and statistics primarily for business majors. Data analysis, probability models, random variables, confidence intervals, and tests of hypotheses with business applications.

317 Quantitative Business Research Methods
Fall, Spring, Summer. 3(3-1) Interdepartmental with Marketing and Supply Chain Management. Administered by Department of Marketing and Supply Chain Management. P:M: (STT 315) R: Open only to juniors or seniors in The Eli Broad College of Business. Not open to students in The School of Hospitality Business. SA: ML 317, MTA 317

Application of statistical techniques, including forecasting, to business decision making. Includes applications of linear regression and correlation, analysis of variance, selected non-parametric tests, time series, and index numbers.

351 Probability and Statistics for Engineering
Fall, Spring, Summer. 3(3-0) P:M: (MTH 234 or MTH 254H or LBS 220) R: Open only to juniors or seniors. Not open to students with credit in STT 430.

Probability and statistics for engineering majors. Probability models and random variables. Estimation, confidence intervals, tests of hypotheses, simple linear regression. Applications to engineering.

421 Statistics I
Fall, Spring, Summer. 3(3-0) P:M: (MTH 103 or MTH 110 or MTH 116 or LBS 117) Not open to students with credit in STT 200 or STT 201 or STT 315.

Basic probability, random variables, and common distributions. Estimation and tests for one-, two-, and paired sample problems. Introduction to simple linear regression and correlation, one-way ANOVA.

422 Statistics II
Fall, Spring, Summer. 3(3-0) RB: (STT 421) Not open to students with credit in STT 464.

Goodness of fit and other non-parametric methods. Linear models including multiple regression and ANOVA for simple experimental designs.

425 Introduction to Biostatistics I
Fall. 3(3-0) P:M: (MTH 103 or MTH 110 or MTH 116 or LBS 117) or designated score on Mathematics placement test. Not open to students with credit in STT 200 or STT 201 or STT 315 or STT 421.

Basic probability. Density and specificity of diagnostic tests. Discrete and continuous distributions. Estimation. Hypothesis testing from one and two samples. Sample size and power.

426 Introduction to Biostatistics II
Spring. 3(3-0) P:M: (STT 425)

Inference from two-samples. Paired samples. Analyses of categorical data. Contingency tables. Linear regression and ANOVA. Design and analysis of epidemiologic studies. Confounding. Mantel-Haenszel tests.