821 Crop Evolution
Spring of odd years. 1 credit. Interdepartmental with Horticulture, Crop and Soil Sciences; Forestry; Plant Biology. Administered by Department of Horticulture. RB: Introductory Genetics and Plant Biology. Cultural and biological aspects of the evolution of domestic plants.

822 Historical Geography of Crop Plants
Spring of odd years. 1 credit. Interdepartmental with Horticulture, Crop and Soil Sciences; Forestry; Plant Biology. Administered by Department of Horticulture. RB: Introductory Genetics and Plant Biology. Development and spread of the major crop species.

847 Advanced Mycology
Spring of even years. 4(2-4) Interdepartmental with Plant Biology. RB: (BOT 402) SA: BOT 847 Systematics, identification, physiology, genetics, and molecular biology of plant pathogenic fungi.

870 Nematode Management in Crop Systems
Summer of even years. 3(2-3) Interdepartmental with Entomology. Administered by Department of Entomology. RB: (PLP 405) SA: BOT 870 Biology, host parasite relationships and management by farming and cropping systems of selected nematode diseases of economic plants.

880 Plant Virology
Fall of odd years. 4(2-4) RB: (BMB 462 and BOT 810) SA: BOT 880 Biology and molecular aspects of viruses causing plant disease.

881 Molecular and Biochemical Plant Pathology
Fall of even years. 4(2-2) RB: (BMB 462 and ZOL 341 and PLP 810) and (BOT 414 or BOT 415) SA: BOT 881 Biochemical and molecular bases of host-pathogen interactions. Mechanisms of pathogenicity and the nature of disease resistance.

884 Prokaryotic Diseases of Plants
Fall of even years. 4(2-4) RB: (BOT 810) SA: BOT 884 Prokaryotic genera associated with plant diseases. Identification, physiology, and genetics. Laboratory techniques.

885 Plant Diseases in the Field
Summer of odd years. 2(1-3) RB: (PLP 810) R: Open only to graduate students. SA: BOT 885 Diagnosis of plant diseases and disorders in a field setting. Field trips and independent study required.

890 Independent Study
Fall, Spring. Summer. 1 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to graduate students. Individual study in laboratory, field or library research in plant pathology.

893 Selected Topics
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. Current topics in plant pathology.

894 Seminar in Plant Pathology
Fall, Spring. 1(1-0) A student may earn a maximum of 6 credits in all enrollments for this course. Review, organization, analysis and oral presentation of research.

899 Master's Thesis Research
Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 99 credits in all enrollments for this course. Master's thesis research.

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. Doctoral dissertation research.

POLITICAL SCIENCE PLS

Department of Political Science
College of Social Science

100 Introduction to American National Government
Fall, Spring, Summer. 3(3-0) The policymaking process in national government, with emphasis on political participation, the presidency, Congress, Supreme Court, bureaucracy, and civil rights and civil liberties.

140 Government and Politics of the World
Fall, Spring, Summer. 3(3-0) Comparative analysis of political systems in first, second, and third-world countries. Alternative methods for comparative cross-cultural analyses of political systems.

160 Introduction to International Relations
Fall, Spring, Summer. 3(3-0) Not open to students with credit in MC 220 or MC 221. Dynamics of conflict and cooperation. Processes of foreign policy decision making. Major international economic issues. Basic future trends. Primary analytical approaches for studying world politics.

170 Introduction to Political Philosophy
Fall, Spring, Summer. 3(3-0) Basic questions of political philosophy as considered from ancient to modern times. Primary focus on the origins, defense, and radical critiques of modern liberal democracy.

200 Introduction to Political Science
Fall, Spring, Summer. 4(4-0) The science of politics. Theory construction, model building, empirical testing, and inductive inference. Examples from American, international and comparative politics.

201 Introduction to Methods of Political Analysis
Fall, Spring, Summer. 4(4-0) P:M: (PLS 200 or MC 201) Philosophy of social science. Principles of research design, measurement, hypothesis testing, measures of association, cross tabulations, and regression analysis.

301 American State Government
Spring. 3(3-0) Structure and processes of American state government. Interstate differences. Constitutions, elections, political parties, interest groups, and intergovernmental relations. Policy focus on education, welfare, and criminal justice.

302 Urban Politics
Fall. 3(3-0) Structure and processes of American urban politics. Relationship of cities to U.S. federal system. Interstate variations. Policy focus on public education, crime, social welfare, and economic development.

304 Minority Politics
Fall. 3(3-0) Minority groups and the political process in the United States. Civil rights movements, political organizations, legal decisions, political participation, and legislative politics.

310 Public Bureaucracy in the Policy Process
Fall, Spring. 3(3-0) Role of public bureaucracy in the U.S. Theories of administrative behavior and the impact of hierarchy on policy making. Relations with the president, Congress, interest groups, and the public. Administrative functions, responsiveness, and ethics.

313 Public Policy Analysis
Fall, Spring, Summer. 3(3-0) Not open to students with credit in MC 444. Political and economic concepts for evaluating the consequences of government decision making. Issues of problem identification, policy adoption, and implementation affecting program evaluation.

320 The American Judicial Process
Fall, Spring, 3(3-0) R: Not open to freshmen or sophomores. The design of Congress. Rules, structures, and court relations. Role of courts, juries, counsel, litigants, and interest groups in the adjudication process.

321 American Constitutional Law
Fall, Spring. 3(3-0) R: Not open to freshmen or sophomores. U.S. Supreme Court policy making and its effect on issues of current importance, including First Amendment freedoms, due process, race relations, sex discrimination, and privacy.

322 Comparative Legal Systems
Spring, Summer. 3(3-0) Cross-national study of common law and civil law systems. Judicial review and selection of judges. Models of judicial decision-making. High court-low court relations. Role of courts in society.

324 American Legislative Process
Spring. 3(3-0) The design of Congress. Rules, structures, and procedures affecting policy making. Impact of regulatory elections on legislative behavior.

325 American Executive Process
Fall. 3(3-0) P:M: (PLS 100) Role of the president in the U.S. political system. Constitutional questions, presidential selection, presidential power, interbranch relations, and presidential policy making.
Political Science—PLS

Refugees, Displaced Persons, Exiles (W)
Spring. 4(4-0) P:M: (PLS 322 or PLS 342 or PLS 344 or PLS 351 or PLS 352 or PLS 353 or PLS 354) or (PLS 356 or PLS 357 or PLS 358 or PLS 361 or PLS 362 or PLS 363 or PLS 364) and completion of Tier I writing requirement.

Political refugees caused by nationalism, social change, persecution, war, and tyranny. Definition, analysis, history, causes, and consequences. Political, legal, sociological, psychological, economic, and historical problems. International aid.

Political Thought (W)
Fall of odd years. Spring of even years. 4(4-0) P:M: (PLS 371 or PLS 372 or PLS 377) and completion of Tier I writing requirement. R: Open only to juniors or seniors in the Department of Political Science or Interdisciplinary Studies in Social Science major with political science as the disciplinary cognate or approval of department.

Capstone course in one area of political thought. Potential topics include liberty, justice, equality, Aristotle, Plato, Locke, Hobbes, and Mill.

Honors Seminar in Research Design
Fall. 4(4-0) R: Approval of department. Research design seminar for honor’s students in the political science program.

Honors Internship
Fall, Spring, Summer. 3 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department. Supervised participation in research or teaching.

Senior Honors Thesis
Fall, Spring, Summer. 3 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P.M.: (PLS481H) R: Approval of department. Original research and writing under direction of a faculty member.

Field Experience in Political Science
Fall, Spring, Summer. 3 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department. Supervised field work in several areas of study. It may involve internships with non-profit organizations or public agencies, or participation in survey research, political campaigns, or petition drives.

Independent Study
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department. Individual research and reading supervised by a faculty member.

Proseminar: Political Theory and Research Methods
Fall. 3(3-0) Issues in the accumulation of knowledge about political phenomena. Approaches to the verification of hypotheses. Alternative theoretical conceptions in study of politics.

Quantitative Techniques in Public Policy and Political Science I
Fall. 3(3-0) R: Open only to graduate students in Political Science, Political Science-Urban Studies, or Public Administration or approval of department. Foundations of research methodology. Applications of data in public policy and political science. Individual research projects.

Quantitative Techniques in Public Policy and Political Science II
Spring. 3(3-0) RB: (PLS 801) R: Open only to graduate students in Political Science, Political Science-Urban Studies, or Public Administration or approval of department. Linear and nonlinear models applied to public policy and political science data. Individualized research projects.

Political Thought
Fall. 3(3-0) RB: Admission to graduate program in political science. Major political philosophers. Major themes of political philosophy. Consideration of the relationship between political philosophy and other fields of study in political science.

Analytical Tools for Public Policy
Fall. 3(3-0) Not open to students with credit in EC 905 or EC 912A or EC 912B. Basic tools for public policy analysis. Fundamental concepts of microeconomic theory, such as utility maximization, supply and demand, marginal costs and revenues, and competitive and non-competitive markets. Interest rates and discounting time. Public goods and externalities. Equity and fairness concerns.

Environmental Politics and Policy
Fall of odd years. 3(3-0) RB: (PLS 811) The impact of political institutions and processes on environmental policy. The relationship between state and federal policy, and the increasing role of the states. The politics of air and water pollution, toxic wastes, public lands, risk assessment, and environmental justice.

Health Politics and Policy
Spring of odd years. 3(3-0) RB: (PLS 811) Political institutions, processes, and policies shaping the health care system. The impact of Congress, the presidency, executive agencies, and interest groups on health care policymaking. State versus federal responsibilities. Policy analysis of health care issues.

Education Politics and Policy
Fall of even years. 3(3-0) RB: (PLS 811) Contemporary issues in education politics and policy. Applied policy analysis in K-12 education. Role of policy experiments, theories of education policy change, policy entrepreneurship, and school choice.

Issues in Urban Policy and Services
Spring of even years. 3(3-0) Interdepartmental with Social Work. RB: (PLS 811) Issues in urban public policy. Major theoretical approaches. Urban regions, local autonomy, public and private authority, economic constraints, social welfare, service delivery, neighborhood and community development, urban educational systems. Race, gender, and ethnicity.

Proseminar in Formal Theory
Spring. 3(3-0) R: Approval of department. SA: PLS 880 Formal models in understanding politics. Topics may include game theory, spatial modeling, social choice theory, public choice theory, and dynamic modeling. Theoretical issues and research applications.

Proseminar in Public Administration
Fall. 3(3-0) R: Open only to graduate students in the Department of Political Science or approval of department. Expertise and bureaucratic power. Relations with political institutions. Role of public employees, the politics of administrative processes, and administrative ethics.

Proseminar in Policy Analysis
Spring. 3(3-0) P:M: (PLS 810) R: Open only to graduate students in the Department of Political Science or approval of department. Economic and political techniques for analyzing public policies. Utility and limitations of these techniques and their use and abuse in public policy analysis.

Theories of Administrative Organization
Fall. 3(3-0) Decisionmaking, hierarchy, control, participation, and the political context of public organization.

Politics of Public Finance and Budgeting
Fall. 3(3-0) P:M: (PLS 804) R: Open only to graduate students in Public Administration or Political Science, or approval of department. Not open to students with credit in EC 836. Literature on the politics of public finance and budgeting. Resource management in the public sector. Taxation and other revenue sources. Regulation, income redistribution, and fiscal federalism. Theory, practice, and empirical analysis of public budgeting.

Public Policy and the Nonprofit Sector
Spring. 3(3-0) Political, economic, historical, and social perspectives on the nonprofit sector. Public policies promoting and regulating nonprofit organizations. The role of nonprofit organizations in implementing public programs. The public consequences of private actions in the nonprofit sector.

Proseminar in American Politics
Fall. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. The major subfields of American politics. Political behavior within institutions and mass political behavior.

State Government and Politics
Spring of odd years. 3(3-0) Research literature on state government. Interstate differences. Parties, elections, governors, state legislatures, bureaucracy, interest groups, and policy outcomes.

Urban Government and Politics
Spring of even years. 3(3-0) Research literature on urban government. Structure, process, and policy issues. Intergovernmental relations and fiscal interdependences.
824 Congress
Spring of even years. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. RB: (PLS 801 and PLS 802) or approval of department. The legislative process in Congress, and the electoral connection to voters. Topics may include committees, parties and leadership, candidate recruitment and elections, and interactions between Congress and other national institutions.

826 International Development and Sustainability
Fall. 3(3-0) Interdepartmental with Resource Development; Anthropology; Forestry; Social Science. Administered by Department of Community, Agriculture, Recreation and Resource Studies. Environmental, economic, political, legal, management, and cultural components of sustainable development.

828 Public Opinion and Political Behavior
Fall of odd years. 3(3-0) RB: (PLS 801 and PLS 802) or approval of department. The acquisition and change of political attitudes. The relationship between political attitudes and political behavior. Methods and problems of measuring political attitudes.

850 Proseminar in Comparative Politics
Spring. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Research literature in a subfield of comparative politics. Methods, approaches, and purposes.

852 Comparative Public Administration
Fall of odd years. 3(3-0) Administrative systems in industrialized countries. Historical origins, personnel recruitment, bureaucracy-parliament interactions, planning and market regulation, public spending, and public outcomes.

853 Political Economy of Development Policy
Spring of odd years. 3(3-0) Introduction to the political economy of Third World development. Decision making and economic policy.

854 Comparative Political Institutions
Spring. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Political institutions from a comparative perspective. Topics may include electoral systems, political parties, presidential vs. parliamentary systems, representation, federalism, and constitutional engineering.

857 Parties and Elections
Spring of even years. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Origin, organization, and behavior of political parties in advanced industrial societies. Structure and transformation of party systems. Role of issues and elections in party systems. Parties in developing societies.

860 Proseminar in International Relations
Fall of even years. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Theoretical perspectives and analytical approaches to a subfield of international relations.

870 Proseminar in Political Thought
Spring of even years. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Survey of major issues or themes in political philosophy.

871 Classical Political Philosophy
Fall. 3(3-0) Study of one or more major figures or thinkers in ancient or medieval political philosophy.

872 Modern Political Philosophy
Spring. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Study of one or more major figures or thinkers in modern political philosophy.

884 Proseminar on Political Institutions and Public Choice
Fall. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Theories of political institutions, with particular emphasis on the U.S. Possible topics include models of rational action in electoral, legislative, and bureaucratic institutions and problems of majority rule, collective action, and social welfare.

894 Field Experience Practicum
Fall, Spring. 3(3-0) R: Approval of department. Internships in government, private, and government-related agencies or other approved organizations.

900 Research Seminar in Political Methodology
Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: (PLS 802) Advanced topics in political methodology. Individual research projects.

902 Research Seminar in Evaluation Research
Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: (PLS 802) Methods and techniques for evaluating the policies and programs of public and non-profit organizations. Individual research projects.

903 Policy Analysis Practicum
Fall, Spring. 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course. RB: (PLS 811) R: Approval of department. Field experience in public policy analysis. Work with faculty and public personnel to define and analyze a current public problem.

910 Research Seminar in Public Policy and Public Administration
Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: (PLS 810 or PLS 811) Specialized topics in public administration or public policy.

920 Research Seminar in American Politics
Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P:NM: PLS 820. Intensive study of one subfield of American politics. Critical evaluation of the literature.

950 Research Seminar in Comparative Politics
Fall of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: (PLS 850) Intensive study of one subfield of comparative politics. Critical evaluation of the literature.

960 Research Seminar in International Politics
Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: (PLS 860) Intensive study of one subfield of international politics. Critical evaluation of the literature.

970 Research Seminar in Political Thought
Spring of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: (PLS 870) Intensive study of one subfield of political philosophy.

980 Research Seminar in Formal Theory
Fall of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: (PLS 880) Intensive study of one formal modeling technique used in political science research.

993 Readings in Political Science
Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department. Supervised reading in a subfield of political science, public administration, or public policy.

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. R: Open only to doctoral students in Political Science or Political Science-Urban Studies. Doctoral dissertation research.

PRT—Portuguese

PRT

Department of Spanish and Portuguese

College of Arts and Letters

101 Elementary Portuguese I
Fall. 4(4-1) R: No previous experience in Portuguese or approval of department. Practice in using and understanding Portuguese to develop listening, speaking, reading, and writing skills. Pronunciation, grammar, vocabulary, and cultural topics.

102 Elementary Portuguese II
Spring. 4(4-1) P.M. (PRT 101) Further practice in using and understanding Portuguese to develop listening, speaking, reading, and writing skills. Pronunciation, grammar, vocabulary, and cultural topics.