Diseases, insects, and environmental problems

405 Plant Pathology
Spring. 3(2-3) P:M: (BS 110 and BS 111) or
(PLB 105 and PLB 106) or (LBS 144 and
LBS 145) or (LBS 148H and LBS 149H) and
completion of Tier I writing requirement. SA:
BOT 405 Not open to students with credit in
BOT 407.

Plant diseases and the organisms that cause them. Principles of disease management including
application of chemicals, plant breeding, biological
control, and genetic engineering.

407 Diseases and Insects of Forest and
Shade Trees
Spring. 4(3-3) Interdepartmental with Entomology;
Plant Biology. P:M: (PLB 105 or BS 110 or
LBS 144 or LBS 148H and LBS 149H) and
PLB 218 or FOR 204 or HRT 211 and
completion of Tier I writing requirement. SA:
BOT 407.

Diseases, insects, and environmental problems
affecting trees in forests, parks, suburbs, and
nurseries. Methods of control.

490 Professional Internship in Plant
Biology
Fall, 2(2-3) Interdepartmental with Plant
Biology. Administered by Department of
Plant Biology. P:M: (BS 110 or BS 111 or
PLB 105 or LBS 145 or LBS 148H or LBS
149H) SA: BOT 402

Major groups of fungi: characteristics, habitats and
diversity. Significance of fungi in nature and their
economic importance.

493 Plant Reproductive Biology and
Polyplody
Spring. 1 credit. Interdepartmental with
Horticulture; Crop and Soil Sciences;
Forestry; Plant Biology. Administered by
Department of Horticulture. RB: Introductory
Genetics and Plant Biology

Genetic processes underlying variations in plant
reproductive biology and polyplody and the
utilization of these characteristics in plant breeding.

497 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.

499 Doctoral Dissertation Research
Fall, Spring. 1 to 24 credits. A
student may earn a maximum of 99 credits
in all enrollments for this course.

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. 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.
Political Science—PLS

420 American Politics and Public Administration (W)
Fall, Spring. 4(4-0) P.M: (PLS 301 or PLS 302 or PLS 304 or PLS 305 or PLS 310 or PLS 313 or PLS 320) or (PLS 321 or PLS 322 or PLS 324 or PLS 325 or PLS 331 PLS 333 or PLS 334) 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 subfield of either American politics or public administration. Potential topics include legislative behavior, policy analysis, bureaucratic politics, electoral politics, and the determinants of voting behavior.

421 Moot Court and Legal Research in Federal Law (W)
Spring. 4(4-0) P.M: (PLS 320) and (PLS 321 or MC 373) and completion of Tier I writing requirement. R: Open only to juniors or seniors in the Interdisciplinary Studies in Social Science major with political science as the disciplinary cognate or approval of department.
U.S. Supreme Court decisions in federal law. Legal research techniques, and participation in moot court exercise. Possible topics include civil rights and civil liberties.

432 Political Psychology (W)
Fall. 4(4-0) P.M: (PLS 200 and PLS 201) and (PLS 301 or PLS 302 or PLS 304 or PLS 310 or PLS 320 PLS 321 or PLS 322 or PLS 324 or PLS 325) or (PLS 331 or PLS 333 or PLS 334) and completion of Tier I writing requirement. R: Open only to juniors or seniors.
Psalmondic theories of the individual in politics. Political motivations, abilities, skills, personalities, values, attitudes, and identities. Political involvement, expression, and persuasion. Alternative approaches to the study of political psychology.

440 Comparative Politics (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 355 or PLS 356 or PLS 357 or PLS 358) 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 subfield of comparative politics. Potential topics include political development, urbanization, role of public opinion, human rights, and women in development.

460 International Relations (W)
Fall, Spring. 4(4-0) P.M: (PLS 361 or PLS 362 or PLS 363 or PLS 364) 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 subfield of international relations. Potential topics include international conflict, foreign policy, dispute resolutions, and international political economy.

461 Refugees, Displaced Persons, Exiles (W)
Spring. 4(4-0) P.M: (PLS 332 or PLS 342 or PLS 344 or PLS 351 or PLS 352 or PLS 353 or PLS 354 or PLS 355) or (PLS 356 or PLS 357 or PLS 358 or PLS 361 or PLS 362 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.

470 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.

480 Formal Theories of Politics (W)
Spring. 4(4-0) P.M: (PLS 381) 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 subfield of formal theory. Potential topics include game theory, decision theory, and dynamic modeling. Approaches may be either theoretical or applied.

490H 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.

491H 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. R: Open only to seniors in the Political Science Honors Program. Approval of department.
Original research and writing under direction of a faculty member.

494 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.

495 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.

800 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.

801 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.

802 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.

804 Analytical Tools for Public Policy
Fall. 3(3-0) Not open to students with credit in EC 805 or EC 812A or EC 812B.
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.

805 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.

806 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)  

Issues in Urban Public 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 regimes, 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 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.  

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) R: 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 interdependencies.

State Policies Toward Business  
Fall. 3(3-0) RB: (PLS 811)  
Political and economic theories of industrial policy, with primary focus at the state level. The design of industrial policies. Interactions between industrial policies and business strategies. Issues involving federalism and national coordination of state-level policies.

Congress  
Spring of even years. 3(3-0) R: A student may earn a maximum of 6 credits in all enrollments for this course. RB: (PLS 801 and PLS 802 and PLS 820) 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.

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

Judicial Politics  
Fall of even years. 3(3-0) R: 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 research literature on judicial politics. Possible topics include the attitudinal model, small group analysis, the role of interest groups, the impact of public opinion, and inter-institutional relations.

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.

Proseminar in Comparative Politics  
Spring. 3(3-0) R: 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.

Development Administration  
Fall of even years. 3(3-0)  
Design and organization of policies, programs, and projects for socioeconomic development in poor countries. Effects of politics and culture on organizational performance. Public management process from planning to evaluation.

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.

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.

Comparative Political Institutions  
Spring. 3(3-0) R: 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.

Parties and Elections  
Spring of even years. 3(3-0) R: 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.

Proseminar in International Relations  
Fall of even years. 3(3-0) R: 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.

International Political Economy  
Fall of odd years. 3(3-0) RB: (EC 340) or approval of department.  

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

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

Modern Political Philosophy  
Spring. 3(3-0) R: 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.

Proseminar in Formal Theory  
Spring. 3(3-0) R: A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.  
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 on Political Institutions and Public Choice  
Fall. 3(3-0) R: 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.
Political Science—PLS

993 Readings in Political Science
Fall, Spring. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.

999 Doctoral Dissertation Research
Fall, Spring. Project. 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.

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.

320 Advanced Portuguese
Fall, Spring. 3(3-0) P:M: (PRT 811) A student may earn a maximum of 9 credits in all enrollments for this course. R: Approval of department.

305 Research Seminar in Comparative Politics
Fall, Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: (PLS 802) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.

302 Research Seminar in Evaluation Research
Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: (PLS 802) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.

903 Policy Analysis Practicum
Spring, Fall. 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: (PLS 802) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.

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. R: (PLS 802) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.

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. R: (PLS 802) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.

901 Research Seminar in Comparative Politics
Fall, Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: (PLS 802) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.

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. R: (PLS 802) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.

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. R: (PLS 802) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.

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. R: (PLS 802) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.

609 Adult Psychiatry Clerkship
Fall, Spring, Summer. 4 to 16 credits. A student may earn a maximum of 24 credits in all enrollments for this course. R: (PSC 608) R: Open only to graduate-professional students in Colleges of Human and Osteopathic Medicine.

610 Child Psychiatry Clerkship
Fall, Spring, Summer. 4 to 16 credits. A student may earn a maximum of 24 credits in all enrollments for this course. R: (PSC 608) R: Open only to graduate-professional students in Colleges of Human and Osteopathic Medicine.

Department of Psychiatry
College of Human Medicine
College of Osteopathic Medicine

591 Special Problems in Psychiatry
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 36 credits in all enrollments for this course. R: Approval of department.

602 Primary Care Ambulatory Clerkship
Fall, Spring, Summer. 1 to 36 credits. A student may earn a maximum of 36 credits in all enrollments for this course. R: Approval of department.

PORTUGUESE PRT

Department of Romance and Classical Languages
College of Arts and Letters

101 Elementary Portuguese I
Fall, Spring. 4(4-1) A student may earn a maximum of 9 credits in all enrollments for this course. R: (PRT 802) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.

102 Elementary Portuguese II
Spring. 4(4-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: (PRT 802) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.

201 Second-Year Portuguese I
Fall, Spring. 4(4-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: (PRT 802) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.

202 Second-Year Portuguese II
Spring. 4(4-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: (PRT 802) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.

301 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.

302 Advanced Portuguese
Fall, Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: (PRT 802) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.

320 Advanced Portuguese
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.

330 Topics in Luso-Brazilian Language and Culture
Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: (PRT 802) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.

400 Independent Study
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Approval of department.

Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.

PSYCHIATRY PSC

Department of Psychiatry
College of Human Medicine
College of Osteopathic Medicine

591 Special Problems in Psychiatry
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 36 credits in all enrollments for this course. R: Approval of department.

602 Primary Care Ambulatory Clerkship
Fall, Spring, Summer. 1 to 36 credits. A student may earn a maximum of 36 credits in all enrollments for this course. R: Approval of department.

608 Psychology and Behavioral Science Clerkship
Fall, Spring, Summer. 4 to 16 credits. A student may earn a maximum of 24 credits in all enrollments for this course. R: (PSC 608) R: Open only to graduate-professional students in Colleges of Human and Osteopathic Medicine.

Subspecialty experiences in psychiatry in clinical settings with adult patients.