

New Courses and Course Changes  
Effective Fall 2005

LIBERAL ARTS AND SCIENCES  
Anthropology

Anth 325

Culture, Health and Healing (4)

Introduction to the field of medical anthropology. Biocultural aspects of disease and healing. Comparison of healers and healing professions in Western and non-Western societies. Interactions among culture, social relations, environment and health. Topics include healers and healing roles, ethnomedicine and medical pluralism, clinical medical anthropology and nutritional anthropology. [NEW]

Anth 373

Primate Ecology and Behavior (4)

Study of origins, diversity, ecology, behavior, and conservation of living non-human primates. Primate ecology and behavior are explored from a comparative and evolutionary perspective. Emphasis is on primates in natural habitats rather than in captive settings, spanning apes, monkeys, and prosimians. Recommended prerequisite: Anth 101. [NEW]

Anth 425/525

Perspectives in Medical Anthropology (4)

Examination of critical, interpretive and ecological perspectives in medical anthropology. Anthropological study of practice of biomedicine in the U.S., and response to global diseases, including AIDS. Topics include the new medical technologies, social meanings of the body, bioethics, and the medicalization of social problems. Recommended prerequisite: Anth 325 or eight credits of socio-cultural anthropology. [CHANGE TITLE, DESCRIPTION, PREREQUISITE]

Applied Linguistics

Ling 232

Language and Society (4)

General introduction to what languages are like, how they are used and how they vary, focusing on how language interacts with society and culture. Some questions that will be addressed include: Why doesn't everyone speak the same language? Do men and women talk differently? What is the relationship between endangered species and endangered languages? How does language influence our thoughts or behaviors? [NEW]

Ling 233

Language and Mind (4)

General introduction to what languages are like, how they are used and how they vary, focusing on how language is learned and produced. Some questions that will be addressed include: Is language innate? Is it unique to humans? How is language related to thought or to culture? How is language represented in the brain? How is language acquired in different cultures and different circumstances? [NEW]

Ling 476/576

Corpus Linguistics in Language Teaching (4)

Introduction to the methods of corpus linguistics, a type of computer-assisted linguistic analysis, applied to second/foreign language teaching and materials development. Includes weekly computer lab sessions conducting corpus linguistics work. Prerequisite: Ling 390. [NEW]

Ling 560

Research Design for Applied Linguistics (2)

Presents the major designs for research in applied linguistics. Introduces basic quantitative and qualitative methodological concepts. Provides a basis to critically read research literature in TESOL and applied linguistics. Students write a preliminary review of the literature and research question(s) for their M.A. thesis proposal.

Prerequisite: admission to the M.A. TESOL program and at least 16 credits in applied linguistics. [CHANGE TITLE, DESCRIPTION, PREREQUISITES]

#### Ling 561

##### Research Methodology for Applied Linguistics (2)

Second course in a two-course sequence required for M.A. TESOL students, focusing on data collection and analysis. Builds upon introduction to methods in Ling 560. Students work with data, using both quantitative and qualitative techniques. Students write a preliminary draft of the methods section for their M.A. thesis proposal.

Prerequisite: Ling 560 (no concurrent enrollment allowed). [CHANGE TITLE, DESCRIPTION, PREREQUISITE]

### Biology

#### Bi 450/550

##### Phylogenetic Biology (4)

Study of the history of life's diversification through the use of phylogenetic trees, with a focus on how genes, organisms, and traits have evolved. Includes hands-on computer analyses of DNA sequences. Recommended prerequisites: Bi 424, 426. [NEW]

### Black Studies

#### BSt 425/525

##### Black Cinema: the 1970s (4)

Prerequisite: upper-division standing. [CHANGE PREREQUISITE]

#### BSt 426/526

##### Contemporary African American Cinema (4)

Prerequisite: upper-division standing. [CHANGE PREREQUISITE]

### Chicano Latino Studies

#### ChLa 202, 203

Introduction to Chicano/Latino Studies II, III (4, 4) [DELETE COURSES]

#### ChLa 330

##### Latino Popular Culture (4)

Explores a wide scope of Latino popular culture: highly produced entertainment (television, radio, film, magazines); commercial and non-commercial musical and artistic expression; popular celebrations; and the culture of "everyday life", from traditional folklore to newly invented customs and rituals. Popular culture is examined to reveal how Latino groups (Mexicans, Cubans, Dominicans, Puerto Ricans, etc.), reinvent their culture, heritage, and ethnic identity in the U.S., and how Latinos in the process are changing American popular culture and national identity. Students will become familiar with theories of popular culture and get hands-on experience investigating a Latino popular culture form. [NEW – DELETE OLD 330]

#### ChLa 375

##### Southwestern Borderlands (4)

Social, economic, political organization, and representation of the U.S. Mexico Borderlands. While conflict characterizes the history of the interactions among border actors, the contemporary period reveals growing interdependence and economic integration. Explores cultural and social formations of Anglo-Americans and Mexican Americans in a dynamic contact zone, as well as the continuities and discontinuities in popular and academic representations of the border experience. [NEW]

(in catalog)

ChLa 380

Latinos in the Economy and Politics (4)

Offers an overview of economic and political issues facing Latino communities in the United States, with an emphasis on labor market experience, the causes of poverty, and the role of political and civic organizations in shaping Latino ethnic identity. [NEW]

ChLa 412

Chicano/Latino Theater (4) [DELETE COURSE]

ChLa 413

Chicano/Latino Cinema (4) [DELETE COURSE]

ChLa 450

Latinos in the Educational System (4)

Surveys historical and contemporary social science research on the factors influencing the educational status of Latinos in the United States. A brief history of the Latino schooling experience serves as an introduction to current issues such as bilingual education, school segregation, and higher education access. Special attention is given to educational inequalities among Latinos and to the relationship between schooling and limited class mobility.

Prerequisite: upper-division standing. [NEW]

### Communication

Sp 313

Communication in Groups (4) [DELETE PREREQUISITE] (in catalog)

Sp 230

Listening (4)

Listening as an integral part of the communication process. The contextual nature of competent and incompetent listening behavior presented, and includes: knowing when to use emphatic listening instead of sympathetic listening and refraining from using biased listening when comprehensive listening would be appropriate. Opportunity to observe, assess and evaluate competent and incompetent listening behavior in an extensive skill-building project. [CHANGE DESCRIPTION]

Sp 317

Communicating About Violence and Children (4)

Examination of theory and practice for the improvement of communication with children (primarily grades K-6), regarding issues of child abuse (emotional, physical, sexual, and domestic violence). Professional and interpersonal contexts are addressed. Multiple communication issues in relationship to children and violence include: cultural values and beliefs, stereotypes, media representations, language use, nonverbal communication, power, control and conflict. [NEW]

Sp 337

Communication and Gender (4)

Study and practice of the skills involved in competent communication (primarily comprehensive listening and reading, and speaking and writing) in order to separate myths, assumptions and notions from the facts, realities and truths about communication and about women and men. Examination of communication and gender topics will include: the role of anger in communicating about gender issues; the impact of the type of information on discussions about gender; gender difference as a "catch all" explanation for gender problems; the facts of differences being confused with attitudes about differences; perception of women and men as speaking different languages and communicator behaviors as choices. [CHANGE DESCRIPTION]

Sp 419

Gossip and Shop Talk: Interpersonal Challenges at Work (4)

Designed for students in professions where communication competencies are central to their positions, for those interested in developing as communication professionals or for those interested in learning about the seemingly intangible factors which contribute to the casually referred to “people problem” in the workplace. Assessment of positive and negative interpretations of gossip; techniques to improve communication climates. Recommended prerequisite: upper-division standing. [CHANGE DESCRIPTION]

Sp 420/520

Political Communication (4) [CHANGE NUMBER FROM 322]

Conflict Resolution

CR 301

Introduction to Conflict Resolution (4)

Introduces conflict resolution studies. Explores both the nature of conflict and our understanding of what resolution seeks to achieve. Emphasizes strategies students currently employ towards resolving conflict in their own lives, with suggestions and examples that broaden their understanding of what is possible. Small groups, simulated conflict situations, role plays, and examples from community service provide students with the opportunity to both better understand their own strategies and develop new ones. [NEW]

Economics

Ec 314

Private and Public Investment Analysis (4)

Examines the tools required to analyze expenditures that yield benefits over time—investments. The use of accounting documents and a focus on the time value of money allows students to analyze choices in a variety of security, loan, and equipment investment decisions. [CHANGE DESCRIPTION]

Ec 443/543

Global Environmental Economics (4)

An examination of economic forces and theories to understand the causes of global environmental problems and evaluate policy options. Primary emphasis is on developing countries and countries in transition, though linkages with developed countries also considered. Topics include poverty, population, economic development and the environment, global warming, biodiversity protection, sustainability and pollution control.

Ec 472/572

Time Series Analysis and Forecasts (4)

Time series analysis, emphasizing model identification, estimation, and forecasting. Non-stationary time series analysis includes unit root and cointegration tests. Techniques of moving average, differencing, and autocorrelation adjustment are introduced. Diagnostic checking following the model evaluation provides the base model for forecasting. Prerequisite: Ec 370 for 472, Ec 570 for 572. [ADD 572, CHANGE DESCRIPTION]

Ec 527

Applied Energy Economics (4) [DELETE COURSE]

Ec 528

Energy Modeling (4) [DELETE COURSE]

Ec 529

Energy Regulation and Policy (4) [DELETE COURSE]

Ec 530

Energy Economics Practicum (4) [DELETE COURSE]

English

Eng 345

Women's Literature (4)

A close study of writing by women from the medieval period to the present including poetry, drama, fiction and non-fiction. [NEW]

Eng 360

American Literature to 1865 (4)

Overview of genres, themes, and styles in the literatures of Early America and of the Early Republic. [NEW]

Eng 493/593

Advanced Topics in Feminist Theory (4)

Provides in-depth study of specific critical schools within the larger arena of Feminist Theory. Possible topics will include post colonialism and feminism; feminism and the body; historical perspectives on feminism. Prerequisite: 12 credits in literature or literary theory. [NEW]

Wr 300

Topic in Rhetoric and Composition Practice (4)

Study of a variety of issues in the practice of rhetoric and composition. Includes such topics as writing and critical reasoning, visual rhetoric, and writing in the disciplines. May be repeated for credit. [NEW]

Wr 324

Advanced Writing About Literature (4)

Covers advanced issues in reading and interpreting literary texts, applied critical approaches, and the conventions of writing about literature, including documentation. Emphasizes writing and research processes, includes peer workshops. Prerequisite: upper-division standing. [NEW]

Wr 394

Writing Careers for English Majors (4)

A community based learning course for English majors who want to use their English major to shape a viable career. Students hold an internship/serve the community and practice public relations/other professional writing. Prerequisite: upper-division standing. [NEW]

### Foreign Languages and Literatures

\*Dane 346

20th Century Danish Women Writers (4)

Examination of works of 20th century Danish women writers with attention to themes, styles and characteristics in light of the literary trends of their times and feminist criticism. Readings, lectures and discussions in English. [NEW]

\*Dane 361

Danish Films from Dreyer to Dogmer (4)

Examines a number of Danish films produced from 1928 to the present. Explores Denmark's position in the context of the world film industry as well as the Dogmer movement. Readings, lecture and discussion in English. [NEW]

\*Jpn 551

Japanese Language and Literature (4)

In-depth study of a single genre (drama, poetry, or prose). Genre and approach (historical survey, period-specific) will vary from year to year. [NEW]

\*Jpn 552

Japanese Language and Linguistics (4)

Comparative study of intellectual approaches to Japanese language and its analysis, including native (*kokugo*) theories, American structuralism, modern linguistics, and critical theory. Emphasis will vary from year to year. [NEW]

Span 325  
Spanish Phonetics and Phonology (4)  
Recommended prerequisite: Span 301 and 302. [CHANGE PREREQUISITE]

Span 330  
Peninsular Culture and Civilization (4)  
Recommended prerequisite: Span 301 and 302. [CHANGE PREREQUISITE]

Span 331  
Latin American Culture and Civilization (4)  
Recommended prerequisite: Span 301 and 302. [CHANGE PREREQUISITE]

Span 341, 342, 343  
Introduction to Hispanic Literature (4, 4, 4)  
Recommended prerequisite: Span 301 and 302. [CHANGE PREREQUISITE]

### Geography

Geog 240  
Geography of Wine (4)  
Core geographic concepts and themes through the framework of the geography of wine. Exploration of the physical and cultural dimension of grape-growing and wine-making, ranging from historical geography to climate and climate change and cultural geography. [NEW]

Geog 314  
Severe Weather (4)  
Examination of severe and hazardous weather processes such as hurricanes, tornadoes and thunderstorms. Evaluation of the human-environment interaction of severe weather and the potential consequences of global climate change on the intensity and location of severe weather phenomena. Recommended prerequisite: Geog 210. [NEW]

Geog 321  
Mt. Hood (4)  
Examines the physical and cultural systems that shape Mt. Hood and investigates some of the issues that arise when a mostly wild mountain abuts an urban area. Class involves lecture, discussion, research, and fieldtrips. [NEW]

Geog 355  
Landscapes of Spain (4)  
Study of the landscapes of Spain, both the physical and the cultural, and the search for unity in a nation long characterized by diversity. Overview of the climate and topography, the historical development of regional distinctions, and the cultural and political conditions that shape the nation in the 21<sup>st</sup> century. Recommended prerequisite: upper-division standing. [NEW]

Geog 397  
Visualization of Spatial Data (4)  
The use of graphic modes for visualizing data as a fundamental tool in geography and other disciplines. Topics include graphic types, bar charts, line graphs, pie graphs, time series, flow charts, organizational charts, scales of measurement, data transformations, and index numbers. Special emphasis on elements of graphic design and design choices in spreadsheets. Prerequisite: upper division standing. [NEW]

Geog 494/594  
GIS for Water Resources (4)  
Applications of Geographic Information Systems (GIS) in hydrology and water resource management. Topics include hydrologic networks, watershed characterization by GIS, river channel modeling with GIS, GIS modeling and visualization of hydrographic data, time-series water resource data representation and analysis in GIS, and issues in the applications of GIS for watershed management. Recommended prerequisites: Geog 380, 414 and 488. [NEW]

Geog 495/595

Maps, Models and GIS (4)

Analysis and display of spatial data, emphasizing environmental questions within the framework of the raster data model. Topics include an introduction to general systems theory, the nature of models, cartographic model development, model implementation procedures, map algebra, vector-to-raster data conversion, guidelines for symbol usage, and the incorporation of digital remote sensing data into map models. Prerequisite: Geog 380; Geog 485/585 recommended. [CHANGE TITLE, DESCRIPTION, PREREQUISITE]

## Geology

G 207

Computer Based Geology Laboratory (2)

Laboratory work to accompany G202 involving the application of Microsoft Excel, Microsoft Access, and ArcView GIS to solve geoscience problems. One 3-hour laboratory period. Concurrent enrollment in G 202 is required. [NEW]

G 345

Life in the Universe (4)

Focus on issues surrounding the origin and evolution of life on Earth, the environmental conditions required for life elsewhere, and the potential for life on other planets and satellites in our solar system. Additional topics include the discovery, occurrence and habitability of extrasolar planets, and the philosophical and societal implications of searching for life beyond Earth. Prerequisite: upper division standing. [NEW]

G 352

Minerals in World Affairs (4) [CHANGE NUMBER FROM 455, DELETE PREREQUISITE]

G 438/538

Scanning Electron Microscopy for the Biogeosciences (4)

Course provides student with a theoretical understanding of various scanning analytical electron microscopy techniques and hands-on experience using such techniques to characterize geological and biological materials. Topics covered include the basic physics of image and spectrum formation, sample preparation, instrument operation, and data analysis. Two hours lecture and two hours of by-arrangement laboratory. Prerequisite: introductory course sequence in geology, biology, chemistry, physics, or environmental science. [NEW]

G 446/546

Meteorites (4)

A course examining meteorites and the information they provide about the birth and evolution of the solar system. Topics include asteroids and asteroidal heat sources, the solar nebula, early solar system chronology, pre-solar grains, abiotic synthesis of organic matter, differentiation, impacts and collisional processes, and meteorites from Mars. Three lectures. Prerequisites: G 201, one year of chemistry. [NEW]

G 451/551

Geology of the Portland Area (2) [DELETE COURSES]

\*G 457

Volcanoes and Earthquakes (4) [DELETE G 557]

G 482/582

Field Geology II (3) [DELETE COURSES]

G 483/583

Anatomy of Landslides (4) [DELETE COURSES]

\*G 484/584

Field Geophysics (4)

Applications of geophysical techniques to solving a field problem. Methods applied may include gravity, resistivity, refraction ground penetrating radar, and magnetics. Includes at least one weekend in the field and production of a final report with data and conclusions. Prerequisites: Ph 203 or 213, Mth 253. [CHANGE DESCRIPTION, PREREQUISITES]

G 492/592

Topic in Geodynamics (4)

Special topics concerning the dynamics that govern earth processes such as fluid flows and plate motions, and related physical properties of Earth materials. Representative topics include ice sheet dynamics, glacier dynamics, and thermodynamic modes of earth systems. May be repeated for credit if topics are different. Two lectures and one two-hour laboratory. Prerequisites: Mth 254, Ph 213, and G 326. [NEW]

## History

Hst 350

English History from 1066 to 1660 (4)

Designed to survey the history of England from the conquest in 1066 through the English Civil Wars and the ensuing period when England was without its monarchy in the mid-seventeenth century. Using a lecture/discussion format, explores significant events and developments in the governance, society, economy, and religion of England during this period. [CHANGE TITLE, DESCRIPTION, DIVISION OF SEQUENCE]

Hst 351

English History from 1660 to the Present (4)

Designed to survey the history of England from the restoration of the monarchy in 1660 to the present time. Using a lecture/discussion format, explores significant events and developments in the governance, society, economy, and religion of England during this period. [CHANGE TITLE, DESCRIPTION, DIVISION OF SEQUENCE]

Hst 352

European Women's History to 1700 (4)

An upper-division course designed to survey the history of women and the changing social construction of gender in Europe from c. 1000 to c. 1700. Explores the impact of social, intellectual, economic, and political changes, as well as significant events such as the Black Death and recurring religious change. [NEW]

Hst 357

Europe from Reformation to Revolutions (4)

Major developments in European social, political, economic, cultural, and intellectual history from the late 16<sup>th</sup> through the mid-19<sup>th</sup> centuries. Recommended prerequisite: Hst 102 or upper-division standing. [CHANGE TITLE, DESCRIPTION, DIVISION OF SEQUENCE]

Hst 358

Europe's Long 20<sup>th</sup> Century (4)

Major events (World Wars I and II), socio-political movements (communism, fascism, Nazism), people, and themes in European history from the mid-19<sup>th</sup> century to the present. Recommended prerequisite: Hst 103 or upper-division standing. [CHANGE TITLE, DESCRIPTION, DIVISION OF SEQUENCE]

Hst 450/550

Medieval England (4)

Examines political, religious, social, and economic aspects of the history of England from approximately 800 to the end of the fourteenth century. Recommended prerequisite: upper-division standing or permission of instructor. [CHANGE DESCRIPTION]

Hst 451/551

Early Modern England (4)

Examines political, religious, social, and economic aspects of the history of England from the fifteenth through the seventeenth centuries. Recommended prerequisite: upper-division standing. [CHANGE TITLE, DESCRIPTION]

Hst 452/552

Topics in the History of European Women (4)

Examines selected aspects of the history of European women, focusing on one or more specific regions, topics, and/or time frames. Possible topics include aspects of the history of women and religion, women and work, women accessing power, and gender and religious identity. Course may be taken more than once with permission of instructor. Recommended prerequisite: upper-division standing. [NEW]

Hst 454/554

Topics in Medieval History (4)

Examines selected topics in the social, cultural, and /or religious history of the European Middle Ages, spanning the period from the roughly 300-1450 C.E. Topics will vary, but may include the study of sanctity and society, religious dissent and reformation of the church, holy war and crusade, regional and national political histories, cross-cultural studies, and other subjects. Recommended prerequisites: Hst 101, 354, or 355. [NEW]

Hst 456/556

Religious Change in Sixteenth Century Europe (4)

Examines the causes, characteristics, and consequences of the revolutionary changes in European Christianity that occurred during the sixteenth century: changes that are generally labeled "The Reformation." Recommended prerequisite: upper-division standing. [CHANGE TITLE, DESCRIPTION]

Hst 457/557

History of Germany (4) [DELETE COURSE, DIVISION OF SEQUENCE]

\*Hst 458/558

Modern Germany (4)

Examines aspects of the development of German political, social, and cultural life during the 19<sup>th</sup> and 20<sup>th</sup> centuries. Recommended prerequisites: Hst 103, 358. For 558: graduate standing. [CHANGE TITLE, DESCRIPTION, DIVISION OF SEQUENCE]

Hst 459/559

European Intellectual History (4) [DELETE COURSE, DIVISION OF SEQUENCE]

\*Hst 460/560

Topics in European Intellectual History (4)

Examines a selected theme in the development of European thought in its social context; format includes lecture and the analysis and discussion of primary texts. May be taken a second time for credit (maximum 8 credits) with a different topic. Recommended prerequisites: upper-division standing for 460, graduate standing for 560. [CHANGE TITLE, DESCRIPTION, PREREQUISITES, DIVISION OF SEQUENCE]

### International Studies

Intl 317

Topics in Asian Thought (4)

Study of the religious and ethical traditions of Asia, including but not limited to Buddhism, Confucianism, Hinduism, and Islam, their social and cultural importance, and their ties to political thought and history. [NEW]

Intl 321

Globalization and Identity: Humanities (4)

Examines how U.S. and Asian societies define the meaning of globalization vis-a-vis themselves and each other using source materials from the humanities. [NEW]

Intl 322

Globalization and Identity: Social Science (4)

Examines how U.S. and Asian societies define the meaning of globalization vis-a-vis themselves and each other using source materials from the social sciences. [NEW]

Intl 323

Tradition and Innovation: Humanities (4)

Examines how U.S. and Asian societies employ the meanings of “tradition” and “innovation” to define themselves and view each other. Looks at tradition and innovation in both societies through plays, film and Asian and American literature. [NEW]

Intl 324

Tradition & Innovation: Social Science (4)

Examines how U.S. and Asian societies employ the meanings of “tradition” and “innovation” to define themselves and view each other. Looks at tradition and innovation in both societies through historical, economic, and political science perspectives. [NEW]

### Mathematics

Because of the addition of Mth 261 to their curriculum, and the separation of Mth 254 from the 251, 252, 253 sequence, many prerequisites that used to be Mth 251-254 have changed. These are reflected throughout the current Bulletin.

Mth 261

Introduction to Linear Algebra (4)

Introduction to rudimentary set theory, the algebra of sets, systems of linear equations, linear transformations, matrix algebra, vector spaces, and determinants. Recommended prerequisite: Mth 112. [NEW]

Mth 457/557, 458/558

The Mathematical Theory of Games (3,3)

Introduction to mathematical game theory and game theoretic analysis. Topics include: combinatorial and strategic games, Perfect Competition, Zermelo’s Algorithm, Payoffs, cooperative and non-cooperative games, bargaining, mixed strategies, Nash Equilibrium, repeated games and finite automata, common knowledge and incomplete information, the prisoner’s dilemma. Selected applications to economics, biology, computer science, and political science. Prerequisite: Mth 261 and/or Stat 243. [NEW]

### Philosophy

Phl 316

Social & Political Philosophy (4)

The main philosophical theories of the nature and principles of a just society. Social and political order, freedom, justice, and happiness are declared to be the principal ends of any society. Philosophical theories describe, explore, explain, and frequently attempt to justify specific social or political arrangements in order to attain these goals. [NEW]

Phl 422

American Philosophy (4)

Surveys important perspectives, ideas, and theories in the writings of major American Philosophers. Focuses on four main topics: the pragmatic philosophy of John Dewey; pragmatism more generally, as developed in the work of Charles Peirce, William James, and George Herbert Mead; classical American philosophy more generally still, as articulated in the writings of Josiah Royce and George Santayana (in addition to Peirce, James, Dewey, and Mead); and the larger intellectual and cultural context of this philosophy, as found in both earlier writers, (e.g., puritans, American enlightenment figures, and transcendentalists) and later, contemporary authors rooted in the pragmatic tradition. [NEW]

Phl 425/525

Analytic Philosophy (4)

Examination of the analytic philosophical tradition from Frege and Russell through early Wittgenstein and the Positivists to the present. Recommended prerequisite: eight credits in philosophy, upper-division standing or consent of instructor. [NEW]

Phl 446/546

Topics in Ethics (4)

Considers an array of important issues in contemporary moral philosophy, including (but not limited to) the relation between applied and theoretical ethics, the foundations of moral responsibility and blaming, the role of virtues in the moral life and the role of outcomes in moral evaluation. Topics vary per course which will allow students to take course more than once, with departmental approval, to apply toward major requirements. Recommended prerequisite: Phl 308 or 445, or consent of instructor. [CHANGE TITLE, DESCRIPTION, PREREQUISITES]

Phl 450

Ethics and International Justice (4)

The aim of this course is to examine moral principles and judgments relevant for appraising the key tools of foreign policy. Included are issues of military, humanitarian, and covert intervention, economic sanctions, development assistance, human rights, democracy, and transitional justice among others. Recommended prerequisite: eight credit hours in philosophy. [NEW]

Phl 470/570

Philosophy of Science (4)

Focus on the history and philosophy of the scientific method. Topics include an overview of the major models of the scientific method (inductivism, falsificationism, Kuhnian paradigms, etc.) and issues pertaining to the accuracy of these models and their rationality such as theory-ladenness of observation, testing-holism, and the incommensurability of theory change. Recommended prerequisite: eight credits in philosophy, upper-division standing or consent of instructor. [CHANGE DESCRIPTION, PREREQUISITES]

Phl 471/571

Topics in Philosophy of Science (4)

An in-depth analysis of some specific metaphysical issue pertaining to scientific epistemology such as (but not limited to) explanation, causation, realism, geometry, and relativism. Topics vary per course which will allow students to take course more than once, with departmental approval, to apply toward major requirements. Recommended prerequisite: eight credits in philosophy, upper-division standing or consent of instructor. [NEW]

#### Physics

Ph 319

Solid State Physics for Engineering Students (4)

Survey of solid state physics including topics necessary for understanding crystalline solids and their electron transport processes. Topics include crystal lattices, x-ray diffraction, concepts of quantum physics, the Schrodinger equation, electron tunneling, physical statistics, the free electron theory of metals, periodic potentials, semiconductors, and superconductors. Recommended prerequisite: Ph 213 or 223. [NEW]

#### Science Education

Sci 320

Rates of Change (4)

Explores rates of change in a laboratory-style format. Analyzes the relationships between quantities and rates using hand-drawn and computer-generated graphic representations. Provides resources for pre-service teachers. [NEW]

Sci 325

Science of a Hydrogen Economy (4)

Hydrogen is considered as an ideal energy source. Explores various methods of hydrogen production, storage, delivery and uses. Includes discussion of hydrogen's image as an abundant, clean, high energy output, easily

obtainable, safe energy source. Considers safety issues and codes/standards from various related agencies and organizations that would have been necessary to have avoided such historical mishaps as those involving the Hindenberg and the space shuttle Challenger. Recommended prerequisite: Natural Science Inquiry. [NEW]

#### Sci 338

##### Investigating Forest Ecosystems (4)

Fundamental concepts of terrestrial ecology in the context of present unresolved forest management issues. Participants will learn an appropriate set of field skills in soil and vegetation monitoring and engage in a short-term research project at a local site. Socio-political context of Pacific Northwest forest management will be covered through guided controversies and guest speakers. Prerequisite: one ecology or environmental science course. [NEW]

#### Sci 356

##### Concepts of Global Environmental Sustainability (4)

Environmental sustainability explored through a variety of international case studies. Focus on role of cultural, economic and political conditions—e.g., global trade agreements, global environmental agreements, and aid and development structures—in shaping decision-making around environmental sustainability. [NEW]

#### Sci 357

##### Sustainability in the U.S.-Mexico Border Region (4)

Explores environmental and economic sustainability issues at the U.S.-Mexico border. Dialogue with U.S. and Mexican border residents; tours of immigration facilities and multinational factories; homestays with working class families; and service with Mexican-based agencies. Spanish language skills not required. [NEW]

#### Sci 365

##### The Science of Women's Bodies (4)

The female human body is studied from a multidisciplinary perspective including anatomy, physiology, genetics, cell biology, endocrinology and human development, as well as biochemistry. Current social, cultural and political topics related to the science and policy of women's health are also discussed. This course is the same as WS 365; may only be taken once for credit. [NEW]

#### Soc 586/686

##### Topics in Health and Inequality (4)

Seminar focusing on the impact of race, class, and/or gender on health and health care. Topics may include medicalization of women's bodies, the social consequences of disparities, and current public policy debates about reducing disparities. Recommended prerequisite: Soc 459/559. [NEW]

#### Soc 587/687

##### Comparative Health and Welfare Systems (4)

Explores the sociology of health and inequality by comparing domestic and international social institutions and health care systems. Prerequisite: Soc 586/686. [NEW]

### Speech and Hearing Sciences

#### SpHr 432/532

##### Alternative Medicine (4)

Fundamental questions about the nature of health and of healing from different traditions (e.g., Traditional Chinese Medicine; Homeopathy; Ayurveda Medicine; Naturopathy). Emphasizes alternative therapies that differ from allopathic and osteopathic medicine which are the predominant health systems in the West. Prerequisite: upper-division status. PHE 295 recommended. [NEW]

## Women's Studies

### WS 306

#### Global Gender Issues (4)

Study of gender issues in an international perspective. Courses will focus on a theme that can be studied comparatively, such as gender and public policy, or on a particular country or national/ethnic group, such as Filipina women. This course is repeatable with different topics. [NEW]

### WS 309

#### Disney: Gender, Race, and Empire (4)

Explores construction of gender, race, and empire in the animated films of Disney. Examines the content of Disney films created within particular historical and cultural contexts in order to understand cultural production in relation to intersections of racism, sexism, colonialism, and imperialism. [NEW]

### WS 332

#### Race, Class, Gender, and Sexuality in the U.S. (4)

Examines the ways in which race, class, gender, and sexuality are conceptualized and represented in contemporary U.S. culture and society; investigates the institutions, practices, and discourses that comprise notions of race, class, gender, and sexuality in the U.S. and how these social categories shape and are shaped by one another. [NEW]

### WS 361

#### Sexual Assault (1)

Examines sexual assault from historical, political and psychological perspectives, the legal and medical systems' responses to sexual assault, considers the trauma that results from rape and the options for healing. Recommended prerequisite: WS 350. [NEW]

### WS 362

#### Women and Trauma (2)

Examines effects of trauma on the brain and brain functioning, psychological effects of childhood trauma, resilience as a factor in coping with traumatic experiences and how to foster healing in trauma survivors. Recommended prerequisite: WS 350. [NEW]

### WS 363

#### Moving Beyond Trauma (1)

Examines survival from interpersonal violence, draws on resiliency research to understand what fosters healing, explores the role of support systems, altruism, spirituality and social activism in overcoming trauma. [NEW]

### WS 365

#### The Science of Women's Bodies (4)

The female human body is studied from a multidisciplinary perspective including anatomy, physiology, genetics, cell biology, endocrinology and human development, as well as biochemistry. Current social, cultural and political topics related to the science and policy of women's health are also discussed. This course is the same as Sci 365; may only be taken once for credit. [NEW]

### WS 471/571

#### Global Feminisms (4)

Themes and theoretical principles of global feminisms, with special emphasis placed on Third World feminist movements. Themes explored include colonialism, globalization, nationalism and nation-building, representation, global economies, and the politics of race, gender, class, sexuality, and nation. Prerequisite: WS 301 or 315 or consent of instructor. [NEW]

## BUSINESS ADMINISTRATION

Actg 485/585  
Business Law (4) [CHANGE NUMBER FROM 412/512] (in catalog)

BA 561

Law for Managers (2)

Examines the legal issues that business organizations face. A focus on small and emerging companies will be used. Specifically, contract law, property law (including intellectual property), employment law, secured transactions law and product liability law will be addressed. Course will also consider the issues with regard to choice of business entity. [NEW]

## EDUCATION

### Educational Policy, Foundations, and Administrative Studies

EPFA 432/532

Training Methods (3)

Focuses on instructional strategies and effective delivery of training programs necessary for enhancing adult learning and professional development. Students will examine individual learning preferences and multiple types of active pedagogy for increasing transfer of learning. In addition, various techniques and tools for linking learning outcomes with organizational goals will be addressed. Prerequisites: EPFA 429/529. [NEW]

EPFA 434/534

Leadership of the Training Function (3)

Focuses upon research-based, practical approaches for leading, managing and evaluating the training and development function in organizations. It explores the role of training and development in achieving individual and organizational goals, as well as strategies and resources used in effective personnel development. Students analyze how to: develop, manage and evaluate the training function; identify strategies and resources for effective training management; and diagnose how the organization's culture and needs affect the selection and success of training management efforts. Prerequisite: EPFA 429/529. [NEW]

EPFA 435/535

Organization Transformation through Training and Development (3)

Designed for managers of the training and development function in organizations, this course focuses on the role of training and development in organization transformation, improvement, and change. The course provides opportunities to bring real workplace examples into the classroom and to apply organization development and systems theory in the development strategies for organization improvement through the training and development function. Prerequisite: EPFA 429/529. [NEW]

EPFA 523

Assessing Adult Learning (4)

Prerequisite: graduate standing. [CHANGE PREREQUISITE]

EPFA 525

Student Services in Higher Education (4)

Provides an introduction to the professional field of student affairs within the context of colleges and universities, including its historical, philosophical, ethical, and theoretical foundations. Current and future issues for the profession are also critically examined. Course includes an additional concurrent 30-hour minimum field project requirement. Prerequisite: graduate standing. [CHANGE TITLE, DESCRIPTION]

EPFA 527

Legal Issues in Higher Education (4)

Provides a general introduction to the law related to higher education and professional practice in colleges and universities. In addition to the substance of related law, the course explores how the law is applied to rules and policy and how ethical standards and principles impact that application. Course includes an additional concurrent 30-hour minimum field project requirement. Prerequisite: graduate standing. [CHANGE CREDIT HRS FROM 2 TO 4, DESCRIPTION]

EPFA 528

Leadership in Postsecondary Education (4)

Examines emerging conceptualizations and forms of leadership and leadership development in postsecondary education. Ethical and value bases of leadership inform a focus on the creation of organizational and social change within postsecondary settings. Course emphasizes non-hierarchical models of leadership that value diversity and involve collaborative relationships and collective action. Application of leadership development issues within a variety of educational and social service organizations are explored. Course includes an additional concurrent 30-hour minimum field project requirement. [CHANGE TITLE, CREDIT HRS FROM 2 TO 4, DESCRIPTION]

Coun 557

Job Placement and Training (3) [DELETE COURSE]

Coun 559

Professional Practices: Rehabilitation of the Blind (3) [DELETE COURSE]

Coun 597

Counseling for the 21<sup>st</sup> Century (3) [DELETE COURSE]

Coun 598

Consultation Procedures (3) [DELETE COURSE]

Coun 599

Professional Portfolio (3) [DELETE COURSE]

Lib 433/533

Global Literature: K-12 (3)

A survey of global literature for use with students in elementary, middle or high school classrooms. A major focus will be on selecting and reading materials and using them in the library and classroom. [NEW]

ENGINEERING AND COMPUTER SCIENCE

EAS 101

Engineering Problem Solving (4)

Prerequisite: Mth 112. [CHANGE PREREQUISITE]

Civil and Environmental Engineering

CE 484

Civil Engineering Project Management and Design I (3)

Engineering design process..... [CHANGE TITLE, ADD SECOND WORD OF DESCRIPTION]

CE 494

Civil Engineering Project Management and Design II (3)

Prerequisite: CE 484. [CHANGE TITLE, PREREQUISITE]

Electrical and Computer Engineering

ECE 271

Digital Systems (5)

...use of computer-based tools introduced in ECE 171; weekly laboratory. Prerequisite: ECE 171. [CHANGE CREDIT HRS FROM 4 TO 5, DESCRIPTION AS SHOWN]

ECE 311

Feedback and Control (5)

...Compensation methods derived from Bode plots; weekly laboratory. Prerequisite: ECE 222, Mth 256.  
[CHANGE CREDIT HRS FROM 4 TO 5, LAB HOURS, DESCRIPTION AS SHOWN, PREREQUISITE]

#### ECE 332

##### Engineering Electromagnetics II (5)

Review of Maxwell's equations and electromagnetic wave propagation, boundary conditions and reflections, antenna analysis and design; practical aspects: crosstalk, electromagnetic interference and compatibility; weekly lab. Prerequisite: ECE 331. [CHANGE TITLE, CREDIT HRS FROM 4 TO 5, LAB HRS, DESCRIPTION]

#### ECE 372

##### Microprocessor Interfacing and Embedded Systems (5)

...and an introduction to the Unified Modeling Language (UML); weekly laboratory. Prerequisite: 371.  
[CHANGE CREDIT AND LAB HOURS, DESCRIPTION AS SHOWN]

#### ECE 415/515

##### Fundamentals of Semiconductor Devices (4)

Prerequisites: Ph 317, ECE 322. [CHANGE PREREQUISITES]

#### ECE 418/518

##### Linear System Analysis I (4)

Prerequisite: ECE 223. [CHANGE PREREQUISITE]

#### ECE 572/672

Advanced Logic Synthesis (4) (in catalog)

### Mechanical and Materials Engineering

#### ME 475

##### Joining Processes and Design (4)

Course covers welding, brazing and soldering processes such as: shielded metal arc, gas metal arc, pulsed gas metal arc, flux cored arc, gas tungsten arc, plasma arc, submerged arc, electroslag, resistance, gas, and older welding processes; diffusion brazing, transient liquid phase bonding, wave soldering, reflow soldering, and others. Manual, automatic, and robotic methods of welding, brazing, and soldering. Rapid and economical cutting methods such as plasma, laser, and oxy-fuel cutting. Welding design with steel, stainless steel, and aluminum alloys will be emphasized. Design of joints to provide economy, strength, and crack resistance. Heat flow calculations in welding; preheat calculations and other crack-preventing calculations will be utilized. Welding codes will be covered. Prerequisite: ME 241. [NEW]

#### ME 476

##### Materials Failure Analysis (4)

Fundamental mechanisms related to failure of metal and alloys used in engineering structures. Mechanisms include: ductile and brittle fracture, fatigue, corrosion fatigue, wear, liquid erosion, stress corrosion, hydrogen-assisted cracking, elevated temperature failures, and many others. Analytical tools used to identify types of failures including: optical metallography, scanning electron microscopy, secondary ion mass spectroscopy, electron probe microanalysis, X-ray photoelectron spectroscopy, Auger electron spectroscopy, and others. Ductile, brittle, intergranular, cleavage, quasi-cleavage and microvoid coalescence modes of fracture are discussed. Failures in weldments, brazed and soldered joints, castings, bearings, boilers, forgings, pipelines, bridge components, gears, springs, wear components, tools, and dies. Prerequisite: ME 314. [NEW]

### FINE AND PERFORMING ARTS

#### Architecture

#### Arch 100

Introduction to Architecture (4)

...architectural spaces and forms. Open to majors only. [CHANGE LAST SENTENCE AS SHOWN]

Arch 180, 181  
Beginning Design Studio I, II (6, 6)  
Prerequisite: Arch 100. [ADD PREREQUISITE]

Arch 225  
Digital Graphics (4)  
Prerequisite: Arch 180. [CHANGE PREREQUISITE]

Arch 343  
Project Management III (6)  
Third in a series of courses designed to develop in students advanced construction management techniques. Emphasis on developing customer service plans, customer relations, quality control, project evaluation, and planning for future opportunities. Prerequisite: Arch 202. [CHANGE NUMBER FROM ARCH 203, DIVISION OF SEQUENCE, DESCRIPTION, PREREQUISITE]

Arch 344  
Construction Codes and Compliance (4)  
Application of Oregon codes and regulations that govern the commercial and industrial construction industry. Students complete assignments and quizzes in the utilization and interpretation of uniform standards defined by predominant industry standards. Upon completion of the coursework, students will be able to interpret applicable jurisdictional codes. [CHANGE NUMBER FROM ARCH 204, CR HRS FROM 6 TO 4, DESCRIPTION]

#### Theater Arts

TA 364  
Directing I (4) [DELETE COURSE]

TA 454/554  
Directing I (4)  
Study and practice in play analysis and directing of scenes. Prerequisites: TA 111, 112, 141, 142, 301.  
Recommended: TA 311, 321. [NEW]

TA 484/584  
Anatomy of a Movie I: Product of the Studio Era  
First in a sequence intended for advanced film students. Operates as a case study of one well known, critically acclaimed film of the studio era, examining the industrial, technical, cultural and artistic elements in the film's production, exhibition and reception. Topics include studio ideology and production strategies, the star system, and historic context and meaning of films. Prerequisites: TA 131 and upper division standing. Recommended: TA 370 Film History I, II.

TA 485/585  
Anatomy of a Movie II: The Independent Film  
Second in a sequence intended for advanced film students. Operates as a case study of one well known, critically acclaimed film produced independently since 1968, examining the industrial, technical, cultural and artistic elements in the film's production, exhibition and reception. Topics will include the independent filmmaker as auteur, the economics of the New Hollywood, and ideology and politics of independent filmmaking, in the U.S. and abroad. Prerequisites: TA 131 and upper division standing. Recommended: TA 370 Film History I, II.

#### GRADUATE SCHOOL OF SOCIAL WORK

SW 465/565  
Introduction to Indian Child Welfare and the Indian Child Welfare Act (4)  
Introduction to Indian Child Welfare with an emphasis on understanding legal, historical, and cultural issues applying to work with American Indian and Alaskan native youth. Emphasis is on Indian Child Welfare issues in the Pacific Northwest. [NEW]

SW 535

Advanced Direct Human Services Seminar (2)

Integrates material covered in Advanced Practice for Direct Human Services I and II, resulting in student's development of a personal model of practice. Supervision, continued professional development, and licensing also addressed. Prerequisite: SW 534; corequisite; SW 500. [NEW]

SW 536, 537

Advanced Community Based Practice I, II (4, 4)

[CHANGE NUMBER FROM 535, 536]

SW 538

Advanced Community-based Practice: Evaluation and Analysis (2)

Provides integrative experiences and materials building on and supportive of SW 535/536. Emphasis is placed on skills and techniques for the evaluation of community-based practice; analysis of an articulation of the student's personal model/framework of reference for community-based practice; and strategies for post-master's professional development of and contributions to the student's field of community-based practice. Prerequisites: SW 535 and 536. [NEW]

SW 559

Brief Therapy and Other Short-term Social Work Interventions (4) [DELETE COURSE]

SW 563

Social Work with Children, Adolescents, and Their Families (4)

[CHANGE TITLE]

SW 564

Social Work with Adolescents and their Families (4) [DELETE COURSE]

SW 568 Developing Culturally Competent Child Welfare Practice (4)

Examines current practice strategies for social workers serving families that have experienced the effects of child abuse and neglect. Critical thinking as the mechanism for evaluating and implementing approaches such as strengths need-based interventions, family preservation modalities and cross-cultural practice. Specific assessment and intervention strategies include ethnographic interviewing, brief interventions, current practice techniques that address issues of attachment, and solution-focused techniques. Examines strategies for inter-agency service delivery, and family, and family-professional. Cross-cultural research as informing current practice. Overrepresentation of oppressed groups, with special emphasis on ethnic and sexual minorities, within the child welfare system analyzed from an international perspective. Implications for policy change discussed. Prerequisite: SW 532. [NEW]

SW 572

Women's Issues in Social Work Practice (4) [DELETE COURSE]

SW 573

Social Work with Populations at Risk (4) [DELETE COURSE]

SW 576

Developing Culturally Competent Organizations (4) [DELETE COURSE]

SW 577

Social Work with Addictive Behavior (4) [DELETE COURSE]

SW 580

Social Service Administration (2)

Theories of client-centered and family-centered social work in complete organizations that promote social and economic justice. Value and ethical considerations in decision-making and issues in developing leadership and

accountability in multicultural environments. Prerequisite: SW 532. [CHANGE FROM 537, 538, TITLE, DESCRIPTION - DELETE OLD 580]

SW 581

Understanding Program Management (2)

Applied behavior and systems theories and management of change strategies and interventions at program and inter-organizational levels. Covers managed care principles, internal advocacy skills, collaboration, supervision, and social service program budgets. [NEW]

SW 582

Supervision and Human Resources (2)

Management skills for effective hiring process and procedures, staff supervision and discipline, working with an organized workforce, staff ethics policies, sexual harassment, Equal Employment Opportunity laws, and creation of organizational culture in social service agencies. [NEW]

SW 583

Issues in Human Service Organizational Management and Leadership (2)

The social work manager in middle management and leadership positions in both not-for-profit and public sector human services organizations. Management philosophy, understanding leadership styles in complex organizations, team building, work with governance boards, participation in organization planning, fundraising, program accountability and evaluation. Prerequisite: SW 580. [NEW]

SW 584

Program Development and Design (4)

How to develop programs and change agency policy for social services. Examines alternative methods to identify problems and assess needs. Technical aspects of setting goals, establishing priorities, describing program activities, and program advocacy and evaluation. Prerequisites: SW 520 and 532. [NEW]

SW 585

Fundraising, Grantwriting, and Human Services Entrepreneurship (2)

Concrete fundraising strategies, grant writing, and creation of innovative programs, business plans and marketing strategies for social service agencies. Program development and budgeting, case statement, grant strategies and application, and donor cultivation and solicitation. [NEW]

## URBAN AND PUBLIC AFFAIRS

### Criminology and Criminal Justice

AJ 525/625

Criminal Justice Theory (4)

Introduces students to theoretical work on criminal justice process, decision-making, and discretion using multiple disciplinary perspectives. Topics discussed include examination of the stages of the justice process and theoretical approaches to studying individual, organizational, system, and political behavior. Emphasis is placed on the practical utilization of theory to inform development of research problems and agenda. [NEW]

AJ 530/630

Criminal Justice Research (4)

Familiarizes students with typical research methods used in the study of criminology and criminal justice along with their resulting databases. This knowledge base will be used as a foundation upon which to teach students how to analyze published research in criminology and criminal justice. Recommended prerequisite: AJ 520/620. [NEW]

AJ 535/635

Criminal Justice Policy (4)

Advanced course in criminal justice policy analysis. Course examines the development, implementation, and outcomes of interventions designed to impact crime and the criminal justice system. Theories of criminal justice intervention will be studied across multiple levels: individual, organizational, community, and system. Emphasis is

placed on the utilization of research findings to inform criminal justice policy and future research. Recommended prerequisites: AJ 515/615, 525/625, and 530/630. [NEW]

## Political Science

### PS 317

#### Film and Politics (4)

Examines the political meanings of films. Topics include: how films reflect, and sometimes challenge, basic themes in American political culture; how filmmakers capture and encode images in ways that tell a culturally-pleasing story; how audiences make sense of these images and stories to construct particular understanding of power, government, and the individual; and the relationship between Hollywood and politics. [NEW]

### PS 432

#### Great Tribal Leaders (4)

Course is based on videotaped interviews with contemporary American Indian leaders discussing the personal and social forces that shaped them and the roles they played in shaping federal Indian policy, law, and natural resource management. Key areas of study include historic eras of federal Indian policy, the exercise of power by federal legislative, judicial, and executive branches and their affects on tribal lives and societies, the continuing survival of tribes, and the evolution of tribal governments to meet unforeseen and overwhelming challenges. Recommended prerequisite: PS 101. [NEW]

## Public Administration

### PA 411

#### Foundations of Citizenship and Community Leadership (4)

Examines theories of citizenship within the democratic tradition, with a special focus on the roles of citizens in the policy implementation process within their local communities. This focus will be examined against the backdrop of the history and tradition of citizenship within the American context. The course builds a definition for community leadership that recognizes the close interface between the role of career administrators as agents of policy implementation and the role of citizens as active stewards of the public good. Recommended prerequisite: upper-division standing or completion of PS 101, 102 or UnSt Leadership for Change Sophomore Inquiry course. [NEW]

### PA 417

#### Ethical Leadership (4)

Explores the ethical conflicts faced by public officials, both elected and career civil servants. The goal of the course is to provide students with ethical leadership models that will enable them to judge the appropriateness of ethical compromises that put personal, professional, organizational, and public service values into conflict with one another. The course will rely on case problems and presentations by public officials who have faced these kinds of conflicts during their careers. Recommended prerequisite: upper-division standing or completion of one of the following: Phl 202, PS 101, PS 102, or UnSt Leadership for Change Sophomore Inquiry course. [NEW]

## Urban Studies and Planning

### USP 211

#### The City in Film (4)

Critically explores urban themes portrayed in contemporary films using lectures, in-class screening, discussion, reflective writing, and analytical essays. Students experience the unique approach of director Michael Moore (Roger and Me) as he attempts to put a face on the seemingly random acts of savage capitalism. In the form of mystery narrative (Dirty Pretty Things), students will see the everyday challenges of the immigrant underclass in multi-ethnic London. In Mon Oncle, Jacques Tati's satirical contrast of suburban modernism with romantic old Parisian

neighborhoods, students will appreciate the timeless sight gags and ultra retro set designs. By exploring the urban themes of these and other films, a gateway is provided to further engagement with community development, urban studies, and planning. [NEW]

#### USP 465/565

##### Pedestrian and Bicycle Planning (3)

Examines the importance of walking and bicycling as means of transportation in a sustainable urban environment. Covers planning, design, implementation, and maintenance of bikeways and walkways, as well as ancillary facilities such as bicycle parking. Focus on the role of education, advocacy, and outreach in improving walking and bicycling conditions. Study relevant examples from various cities, with a heavy emphasis on Portland's experience. [NEW]

#### USP 525

Design Analysis in Planning (2) [CHANGE CR AND LECTURE HRS FROM 1 TO 2]

#### USP 531

Geographic Information Systems (GIS) for Planners (4)

#### USP 533

##### Planning Methods I (4)

Introduction to applied research in planning with emphasis on problem definition, planning and policy research design, collection and analysis for secondary data, and the use of qualitative observations. Prerequisite: undergraduate statistics course. [CHANGE TITLE, ADD LAB, CHANGE CR HRS FROM 3 TO 4, DESCRIPTION, PREREQUISITE]

#### USP 535

##### Planning Methods II (4)

Continuation of USP 533 focusing on statistics, forecasting, interpretation, and presentation of data in the context of planning practice. Prerequisite: USP 533. [CHANGE TITLE, ADD LAB, CHANGE CR HRS FROM 3 TO 4, DESCRIPTION, PREREQUISITE]

#### USP 540

##### History and Theory of Planning (4)

The evolution of the urban planning field from its 19<sup>th</sup> century European origins through the 20<sup>th</sup> century U.S. history. Course addresses the question: why do we produce and implement plans? Specific topics include: philosophical issues and political-organization contexts of professional activity; the place of planning in the political economy of U.S. metropolitan development; and problems of rationality in forecasting, analysis, decision making, and design. [ADD LAB, CHANGE CREDIT HRS FROM 3 TO 4, DESCRIPTION]

#### USP 541

##### Public Participation, Diversity and Professional Ethics (3) {NEW COURSE –CHECK WITH GC}

Examination of principles, methods, and programs for giving explicit attention to the perspectives of citizens in the development and implementation of public policies, programs and planmaking. Sets citizen participation in its historical context with an assessment of its impact to date. Examines issues pertaining to working with diverse communities and highlights ethical dilemmas faced by professional planners. [CHANGE TITLE, DESCRIPTION]

#### USP 549

##### Regional Planning and Metropolitan Growth Management (3)

Explores regional planning in the U.S. today through an examination of historical and contemporary regional planning practice. Begins with an overview of the history of regional planning, including the evolution of thought regarding regionalism and the nature of regions. Examples of regional plans will be used as the basis for examining assumptions, approaches, and methods serving as the foundation for regional planning practice. A synthesis of the findings of the review of plans will be used to draw general conclusions about the field and its prospects. Pays particular attention to the principles, approaches, and methods of growth management generally and with respect to metropolitan regions. [CHANGE TITLE, DESCRIPTION]

#### USP 587

Travel Demand Modeling (3)

Understand, analyze, and apply travel demand forecasting models from an applied and practical perspective. The underlying theoretical basis of model components will also be covered. Student will become familiar with the traditional four-step travel forecasting process, including model application software package, and interpretation of model output. Involves hands-on use of transportation modeling software. Prerequisites: an introductory course in urban transportation planning or professional experience in urban transportation planning; familiarity with spreadsheet software; college-level algebra; and introductory statistics (i.e., regression analysis). Prior experience with DOS is helpful but not mandatory. [NEW]