

2014

Curriculum Change 2014-2015

Portland State University

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Recommended Citation

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PSU Curricular Changes - Effective for Academic Year 2014-15							
This list submitted to OrACRAO on:							
PSU Curricular Change Cycle: Annual							
PSU annual submission date: July of each year							
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Effective Term	New (N) Modified (M) Deleted (D)	Prefix	Course#	Course Title	Credits	Course Description	Type of Change (for modified classes only)
Fall 2014	M	Actg	335	Accounting Information Systems	4	Methodology used in manual and computer systems for the accumulation, classification, processing, analysis, and communication of accounting data. Development of the accounting techniques used in the handling of large amounts of information, special journals and controlling accounts; computer files for storing data, computer processing of data. Discussion of the problems encountered in the systems for different types of organizations. Prerequisites: BA 213, BA 325.	Change prerequisites.
Fall 2014	M	Actg	360	Management Accounting	4	Emphasis on the development, analysis, and communication of cost information relevant to the following functions: planning, decision making, cost control and management, pricing, and performance evaluation. Prerequisite: BA 213.	Change prerequisites.
Fall 2014	M	Actg	381	Financial Accounting and Reporting I	4	Comprehensive study of the principles, conventions and postulates of financial accounting. Appropriate preparation of GAAP financial statements and financial disclosures, including exposure to the judgment inherent in financial reporting. Considers information requirements and expectations of users of financial statements. International financial accounting standards will be considered where appropriate. Specific focus on the responsibility of accountants for maintaining professional accountability to the public interest in the face of institutional pressures. Courses must be taken in sequence. Prerequisites: BA 213 for ACTG 381, Actg 381 for Actg 382; Actg 382 for Actg 383.	Change prerequisites.
Fall 2014	N	Actg	445 / 545	Forensic Accounting	4	Introduces forensic and investigative accounting. Develops working knowledge of the fraud environment, fraud schemes, fraud prevention and detection controls, fraudster characteristics, interview and evidence techniques, the legal system and process for litigation and mediation, how to testify in various trials, and how to conduct and write up a fraud investigation. Prerequisite: Actg 381.	
Fall 2014	M	Actg	485 / 585	Business Law	4	Laws of contracts, negotiable checks, notes, and drafts, insurance, documents of title, sales of goods, letters of credit, employees and independent contractors, agency, partnership, corporations, securities, bankruptcy, security interests, mortgages, suretyship and bulk sales. Covers law part of CPA exam. Prerequisite: BA 213 for ACTG 485.	Change prerequisites.
Fall 2014	M	Actg	490	Advanced Financial Accounting	2	Emphasizes accounting for business combinations, stock ownership investments and financial consolidations. Prerequisites: upper-division standing.	Change description.
Fall 2014	M	Anth	102	Introduction to Archaeology	4	The study of ancient cultures of the world. Introduction to the theories and techniques of archaeological investigation.	Change description.
Fall 2014	M	Anth	355	Historical Archaeology and the Origins of the Modern Pacific Northwest	4	Explores the origins of the modern Pacific Northwest from fur-trade/indigenous contacts to the present using theories and methods of historical archaeology in North America and elsewhere. Topics include heritage, history, and interpretation; the archaeology of the fur trade; the industrial revolution and industrial archaeology; slavery and inequality; and military sites archaeology. Expected preparation: 350.	Change prerequisites.
Fall 2014	N	Anth	357	Archaeology in Popular Culture	4	Study relationships between archaeology, archaeology in popular culture, and modern society. Build knowledge of science in archaeology through analysis of archaeological representations in popular culture (e.g., films, television).	
Fall 2014	M	Anth	361	The Archaeology of Europe	4	Methods and results of the study of ancient cultures of Europe from the earliest traces until the advent of written records. Expected preparation: Anth 350.	Change title, description.
	M	Anth	362	African Prehistory	4	Methods, sources of evidence, and the results of the study of prehistoric cultures of Africa from the earliest traces until the first written records; it includes human origins (physical and cultural evolution), the earliest civilization, peopling of Africa, migrations, earliest settlements, origins of agriculture and metallurgy.	Change description.

Fall 2014	M	Anth	364	The Archaeology of the Pacific Northwest	4	A survey of the ancient cultures and societies of northwestern North America from its earliest peoples to the arrival of Europeans. Expected preparation: Anth 350.	Change title, description.
Fall 2014	M	Anth	365	The Archaeology of North America	4	A survey of the ancient cultures and societies of North America north of Mexico, from the first ancient migrant populations and early hunter-gatherers to the complex agricultural societies encountered by 15th and 16th century European explorers. Expected preparation: Anth 350.	Change title, description.
Fall 2014	M	Anth	366	The Archaeology of Mesoamerica	4	Early cultures of Mesoamerica with an emphasis on the domestication of plants and animals and the development of civilization, focusing on the Maya and Highland Mexico. Expected preparation: Anth 350.	Change title.
Fall 2014	M	Anth	367	The Archaeology of East Asia	4		Change title.
Fall 2014	M	Anth	368	The Archaeology of Oceania	4		Change title.
Fall 2014	M	Anth	451 / 551	History of Archaeology	4	A chronological survey of developments in the field of archaeological inquiry: major schools of thoughts, innovations in method and theory, key personalities and their contributions. Prerequisites: Anth 350. Graduate standing or instructor permission for 500-level course.	Change prerequisites.
Fall 2014	M	Anth	452 / 552	Archaeological Lab Methods	4	Techniques and their applications in the analysis of materials recovered from archaeological sites. Course content will vary, emphasizing the study of various artifact types-lithics, ceramics, textiles, botanical remains, etc. Prerequisites: Anth 350. Graduate standing or instructor permission for 500-level course.	Change course title and prerequisites.
Fall 2014	M	Anth	453 / 553	Archaeological Field Methods	4	The theory and practice of contemporary archaeological field investigation-research design, survey and reconnaissance, site excavation, sampling and recording techniques, cultural resource management. Prerequisites: Anth 350. Graduate standing or instructor permission for 500-level course.	Change prerequisites.
Fall 2014	M	Anth	454 / 554	Archaeological Field School	6	Scientific excavation of archaeological sites or reconnaissance, survey and mapping of sites during a summer field project. Approximately 40 hours of field work per week, with a week of laboratory work. Prerequisites: admission to course is by permission of instructor via an application process.	Change description, prerequisites.
Fall 2014	M	Anth	455 / 555	Analysis of Faunal Remains	5	Reviews issues of recovery, identification, quantification, and interpretation of archaeological faunal remains. Seminar component involves discussion and critical review of recent faunal studies. Laboratory component introduces student to skeletal anatomy of vertebrates (with focus on fishes and mammals) and basic procedures used in faunal analysis. Prerequisites: Anth 350. Graduate standing or instructor permission for 500-level course.	Change prerequisites.
Fall 2014	M	Anth	456 / 556	Issues in Cultural Resource Management	4	Examines the current cultural, legal and regulatory issues, problems, and frameworks affecting the management of cultural resources in North America and elsewhere in the world. Course coverage will include such topics as the laws affecting antiquities trafficking, and the relationships between indigenous peoples and archaeologists. Prerequisites: Anth 350. Graduate standing or instructor permission for 500-level course.	Change prerequisites.
Fall 2014	M	Anth	457 / 557	Hunter-Gatherers	4	An investigation of the economic and social diversity among modern and ancient hunter-gatherers and the theories and methods used by archaeologists to investigate and explain that diversity. Examines topics such as the evolution of hunting and gathering, hunter-gatherer settlement and mobility strategies, social complexity among hunter-gatherers and hunter-gatherers in the modern world. Prerequisites: Anth 350. Graduate standing or instructor permission for 500-level course.	Change prerequisites.
Fall 2014	N	Anth	458 / 558	Past Human-Environment Interactions	4	This course introduces students to major theoretical approaches and topics within the archaeological study of past human-environment interactions, including application of archaeological research to contemporary human-environment issues. Prerequisites: Anth 350. Graduate standing or instructor permission for 500-level course.	
Fall 2014	M	Anth	461 / 561	Advanced Topics in Archaeology	4	In-depth exploration and analysis of a major current problem in archaeology. Problems may be substantive or theoretical. Prerequisites: Anth 350. Graduate standing or instructor permission for 500-level course.	Change prerequisites.
Fall 2014	M	Anth	464 / 564	Topics in Northwest Archaeology	4	In-depth exploration of current problems in the study of Northwest archaeology, particularly as it articulates with general theories of hunter-gatherer adaptations and cultural evolution. Prerequisites: Anth 350. Graduate standing or instructor permission for 500-level course. Recommended prerequisite: Anth 364.	Change title, prerequisites.

Fall 2014	N	Arch	563	Building Science Research Topics	4	A workshop and seminar addressing the detailed application of passive strategies and building technology engaging key topics such as: building materials, envelope, environmental control, and structural systems. Utilizing contemporary building science research methods and practice. Course may be repeated for credit with different topics. Prerequisites Arch 569 or Arch 560	
Fall 2014	N	Arch	568, 569	Architectural Technology I & II	4, 4	A two-quarter sequence introducing technologies involved in the design and construction of buildings. Exploration of the physical properties of materials, building assemblies, and the methods of construction, leading to the integration of building envelope, mechanical, thermal and other environmental building systems. Courses must be taken in sequence. Prerequisites: graduate standing.	
Fall 2014	N	Arch	570, 571, 572	Architectural Design Transition Studio 1, 2, 3	6, 6, 6	Transition studios developing architectural ideas, alongside media and technical skills necessary for advanced graduate study. Creative investigations of architectural design inspired by human activities, site, landscape, structure, tectonics, communal space and urbanism. Includes individual criticism, lectures and seminars. Courses must be taken in sequence. Prerequisites: graduate standing.	
Fall 2014	M	ArH	337	Nature Into Art	4	Focuses on a specific theme concerning the relationship of the nature and the environment with the visual arts. Specific themes may include topics such as environmental art, landscape painting and/or photography, landscape architecture, cartography and art, and the representation of animals. Prerequisite: ArH 205 or 206. Open to non-majors.	Change course number from 437, change prerequisite.
Fall 2014	M	ArH	339, 340	History of Architecture	4,4	A history of architecture from Prehistory to Post- Modernism. Prerequisites for ArH 339: ArH 204 or ArH 205. Prerequisites for ArH 340: ArH 206. Open to non-majors.	Change course numbers from 439, 440; change prerequisites.
Fall 2014	M	ArH	357	Byzantine Art	4		Change course number from 457.
Fall 2014	M	ArH	358	Romanesque Art	4		Change course number from 458.
Fall 2014	M	ArH	359	Gothic Art	4		Change course from 459.
Fall 2014	M	ArH	361	Northern Renaissance Art	4		Change course number from 461.
Fall 2014	M	ArH	457	Byzantine Art	4		Change course number to 357.
Fall 2014	M	ArH	458	Romanesque Art	4		Change course number to 358.
Fall 2014	M	ArH	459	Gothic Art	4		Change course number to 359.
Fall 2014	M	ArH	461	Northern Renaissance Art	4		Change course number to 361.
Fall 2014	M	ArH	351, 352, 353	Ancient Art	4,4,4	Art and architecture of the ancient world from Neolithic through Roman times. ArH 351: Egyptian, Mesopotamian. ArH 352: Greek. ArH 353: Etruscan and Roman. Prerequisites: ArH 204. Open to nonmajors.	Change course numbers from 451, 452, 453; change prerequisites.
Fall 2014	M	ArH	356	Early Medieval Art	4	Focuses on the art and architecture of Early Christian, Celtic, Carolingian, and early Islamic world. Prerequisite: ArH 204. Open to non-majors.	Change course number from 456; change prerequisites.
Fall 2014	M	ArH	371, 372, 373	Italian Renaissance Art	4,4,4		Change course numbers from 471, 472, 473.
Fall 2014	M	ArH	376, 377, 378	Baroque Art	4,4,4		Change course numbers from 476, 477, 478.
Fall 2014	M	ArH	381, 382	19th Century Art	4,4		Change course numbers from 481, 482.
Fall 2014	M	ArH	437	Nature Into Art	4		Change course number to 337.
Fall 2014	M	ArH	439, 440	History of Architecture	4,4		Change course numbers to 339, 340.
Fall 2014	M	ArH	451/551, 452/552, 453/553	Ancient Art	4,4,4		Change course numbers to 351, 352, 353; delete 551, 552, 553.
Fall 2014	M	ArH	456	Medieval Art	4		Change course number to 356.
Fall 2014	M	ArH	471, 472, 473	Italian Renaissance Art	4,4,4		Change course numbers to 371, 372, 373.
Fall 2014	M	ArH	476, 477, 478	Baroque Art	4,4,4		Change course numbers to 376, 377, 378.
Fall 2014	M	ArH	481, 482	19th Century Art	4,4		Change course numbers to 381, 382.

Fall 2014	M	Art	257	Introduction to Video Art	4	Introduction to fundamental techniques of digital video production in the context of contemporary art practices. Topics cover a range of experimental and non-narrative forms, focusing on artists' use of video and other related media theory. Technical information covered includes cinematography, camera operations and digital video editing.	Change title, description, prerequisites.
Fall 2014	M	Art	498	BFA Thesis Exhibition	4	This is a directed study course in studio production and exhibition presentation and it should be taken in the last quarter of the BFA Program. Students prepare and produce a cohesive body of work to be presented in a Thesis Exhibition and a final oral review, concluding with the BFA committee's final recommendation. Required for all BFA students. Prerequisites: Art 492 BFA Contemporary Studio Practice and acceptance into the BFA program.	Change description, credit hours.
Fall 2014	M	BA	301	Research and Analysis of Business Problems	4	Development and use of business tools and techniques as applied to business problems. Students will identify business problems, articulate the issues, research, develop, and evaluate solution alternatives relevant to the problem, and present the results orally and in writing. Students will integrate and reinforce their skills in logical and analytical processing, critical thinking, and communication. Prerequisites: BA 205, BA 213, COMM 220, STAT 244, EC 202, & WR 121 or the third term of FRINQ (UNST 103, 109, 116, 119, 123, 126, 133, 136, 139, 183, 190).	Change prerequisites.
Fall 2014	M	BA	302	Organizational Behavior	4	Focuses on issues that are relevant to the three levels of organizational behavior (i.e., individual, group, and organizational). Key topics include: the nature and dynamics of teams, personal values and employee job attitudes, communication, conflict resolution, motivation, leadership, decision making, employee effectiveness, and the impact of organizational level issues such as policies, structure, design, and culture. Techniques used to facilitate learning may include role plays, cases, presentations, organizational simulations, teamwork, and/or term research papers. <i>Prerequisite: BA 301 or con-current registration in BA 301.</i>	Change prerequisites.
Fall 2014	M	BA	303	Business Finance	4	Development and study of a decision framework for financial management with special emphasis on small- and medium-sized businesses. Topics include analysis of financial health, planning for future financial performance, evaluation of investment opportunities, and analyses of risk. Financing of firm growth and valuation will be introduced. An integration of the concepts of financial management into a total system approach to business decision making will be facilitated with the use of cases, as appropriate. <i>Prerequisites: BA 213, STAT 244, EC 202.</i>	Change prerequisites.
Fall 2014	M	BA	311	Marketing Management	4	Basic marketing concepts from the perspective of the marketing manager. Key focus is to examine the marketing planning and analysis necessary to develop sound marketing plans and strategies. Specific topics include the role of marketing within the firm, analysis of marketing opportunities, selection of target markets and market segmentation, marketing strategies in a global marketplace, use of technology in marketing, and marketing mix decisions. Experiential learning approaches for class participation will be used. Prerequisite: BA 301 or con-current registration in BA 301.	Change prerequisites.
Fall 2014	M	BA	325	Competing with Information Technology	4	Presents the key steps required to gain a competitive advantage in the marketplace through the use of information technologies. Primary focus is to help students understand the information systems development lifecycle and the ways that systems can support functional areas of a business. Other topics include: communication technologies to support groups, productivity software and applications, designing systems for competitive advantage, and systems reengineering. Prerequisites: BA 213, STAT 244, EC 202.	Change prerequisites.
Fall 2014	M	BA	339	Operations and Quality Management	4	Develops an understanding of the various issues and strategies involved in the operation of a service or manufacturing organization. These considerations include the support by the operation's organization of corporate strategy through design and operating decisions. Issues such as global supply sources, worldwide business system influences, continuous improvement, and total quality management will be discussed. Prerequisite: BA 301 or con-current registration in BA 301.	Change prerequisites.

Fall 2014	M	BA	385	Business Environment	4	Study and critical analysis of the role of business in its environment with special references to the interrelationships of legal, technological, economic, political, and social forces with the business enterprise and to the legal and ethical obligations of the business enterprise with its owners, employees, consumers, and society. Prerequisite: BA 301.	Change prerequisites.
Fall 2014	N	Bi	320	Introduction to Organismal Physiology	4	An overview of fundamental principles of physiology. Course covers the physical and chemical mechanisms responsible for how plants and animals function. Prerequisites: Bi 251, Bi 252.	
Fall 2014	M	Bi	343	Genes and Society	4		Change course number to Bi 346.
Fall 2014	M	Bi	346	Genes and Society	4		Change course number from Bi 343.
Fall 2014	M	Bi	380	Microbiology	4		Change course number from Bi 480.
Fall 2014	M	Bi	386	Invertebrate Zoology	6		Change course number from Bi 461.
Fall 2014	M	Bi	388	Microbiology Techniques	2		Change course number from Bi 488.
Fall 2014	N	Bi	425 / 525	Natural History of Antarctica	5	Evolution and systematics of the Antarctic and sub-Antarctic flora and fauna, physiological adaptation to an extreme environment, conservation concerns and the history of exploration and exploitation of the Antarctic region. Prerequisites: Bi 251, Bi 252, Bi 253.	
Fall 2014	N	Bi	436 / 536	Behavioral Endocrinology	4	A comparative examination of the major hormone systems that regulate behavior across the animal kingdom. Emphasizes the reciprocating nature of hormone and behavior interactions and seeks to understand how natural selection drives the evolution of hormone structure and function. Discussions of the primary literature emphasize current knowledge and limitations in the field. Prerequisites: Bi 251, Bi 252, Bi 253.	
Fall 2014	M	Bi	461 / 561	Invertebrate Zoology	6		Change course number to Bi 386, drop 561.
Fall 2014	M	Bi	476 / 576	Population Ecology	5	Course is designed to explore methods to describe population growth and dynamics of plants and animals. The theoretical foundation for the evolution of life histories will be explored, along with analysis of the influence of interspecific interactions on population processes. Larger landscape-level questions will be addressed by examining populations from the framework of source-sink dynamics, ecological traps, and metapopulations. Prerequisite: Bi 357.	Change title, description, credit hours, prerequisites.
Fall 2014	M	Bi	480 / 580	Microbiology	4		Change course number to Bi 380, drop 580.
Fall 2014	M	Bi	486	Pathogenic Bacteriology	4		
Fall 2014	M	Bi	488 / 588	Microbiology Techniques	2		Change course number to Bi 388, drop 588.
Fall 2014	D	CCJ	538	Historical Perspective of Criminal Justice	4		
Fall 2014	N	CCJ	541 / 641	Evidence Based Practices in Criminal Justice	4	Analyzes the scientific and theoretical bases of effective criminal justice practices. Application of evidence-based principles and findings to address problems specific to policing, courts, corrections, juvenile justice, or crime prevention. May be repeated once.	
Fall 2014	D	CCJ	545 / 645	Economic and Political Perspective of Criminal Justice	4		
Fall 2014	N	CCJ	546 / 646	Contemporary Problems in Criminal Justice	4	Critical analysis of contemporary criminal justice problems. Examines the effect of legal, structural, political and cultural factors on criminal justice responses to social problems. Topic of focus varies. May be repeated once.	
Fall 2014	D	CCJ	550	Comparative Perspectives of Criminal Justice	4		

Fall 2014	M	CE	351	Introduction to Transportation Engineering	4	A study of engineering problems associated with the planning and design of urban and intercity transportation with emphasis on systems approach to problem definition and solution. Vehicle operational characteristics and traffic control devices for land, air, and water, data collection methods and development of transportation models for the establishment of design criteria for transportation structures. Prerequisites: STAT 451 and junior standing in engineering.	Change title, description.
Fall 2014	D	CE	460 / 560	Access Management Transportation Systems	4		
Fall 2014	N	CE	485 / 585	Environmental Cleanup and Restoration	4	Survey of procedures for evaluating risks posed by hazardous waste sites and the cleanup steps that lead to an acceptable restoration of such sites. Topics include U.S. environmental law and regulation, site investigations, risk assessment, and a focus on actual case studies, many in Portland and the Pacific Northwest. Prerequisites: junior standing, CE 371 or equivalent.	
Fall 2014	N	CE	489 / 589	Introduction to Advanced Environmental Fluid Mechanics	4	Advanced introduction to the geophysical fluid flows, including properties of seawater; conservation of mass, energy and momentum; dimensional analysis; the Navier-Stokes, Reynolds and turbulent kinetic energy equations; geostrophy and potential vorticity; long and short waves; and turbulence and boundary layers. Lecture and laboratory. Prerequisites: EAS 215, Mth 256, CE 361, CE 362.	
Fall 2014	N	CE	495 / 595	Sustainable Transportation in the Netherlands	4	Introduction to transportation engineering and planning applications in the Netherlands, focusing on pedestrian, bicycle and public transport. Contrasts between U.S. and Dutch engineering principles, policies and standards. Design principles and practice will be explored through field trips and guest lectures while abroad and in Portland. Faculty led study abroad course. Prerequisites: Minimum GPA 3.0, senior status or graduate level from all disciplines and majors.	
Fall 2014	D	CE	552 / 652	Highway Design for Capacity	4		
Fall 2014	N	CE	554	Introduction to Multimodal Transportation Engineering Data Analysis	4	An introduction to multimodal transportation engineering data sets through applied analysis and visualization techniques. Includes an overview of data types, techniques for graphical analysis of data, and exposure to common software and statistical tools and visualizations in transportation engineering. Prerequisites: graduate admission in Civil and Environmental Engineering.	
Fall 2014	N	CFS	101	Introduction to Child and Family Studies	2	Overview of the field of child and family studies, reviewing its historic development and the advantages of an interdisciplinary approach to studying children, youth, and families. Students will survey services that support children, youth, and families. Students will explore professional opportunities, careers choices, and professional organizations.	
Fall 2014	M	CFS	494	Professional Development in Child and Family Studies I	3		Change grading to P/NP only.
Fall 2014	M	Ch	337	Organic Chemistry Lab I	2	Part one of the laboratory work to accompany the sequence of Ch 334, 335, 336. One 4-hour laboratory period. Prerequisite or CoRequisite: Ch 334.	Change prerequisites.
Fall 2014	M	Ch	338	Organic Chemistry Lab II	2	Part two of the laboratory work to accompany the sequence of Ch 334, 335, 336. One 4-hour laboratory period. Not open to chemistry majors. Prerequisite: Ch 335 or co-requisite and Ch 337. .	Change prerequisites.
Fall 2014	M	Ch	339	Organic Chemistry Lab II (Chem Majors)	3	Part two of the laboratory work to accompany the sequence Ch 334, 335, 336. More extensive laboratory course than Ch 338; required for chemistry and biochemistry majors. Two 4-hour laboratory periods. Prerequisites: Ch 336 or co-requisite and Ch 337.	Change prerequisites.
Fall 2014	D	Ch	371	Environmental Chemistry	4		
Fall 2014	N	ChLa	325	Mexican American/Chicano History I, 1492-1900	4	Mexican American/Chicano/a history from the conquest of the Americas to 1900 with an emphasis on empire, civil rights, identity, culture, sexuality, and war. This is the same course as Hst 325 and may be taken only once for credit.	
Fall 2014	N	ChLa	326	Mexican American/Chicano History II, 1900-Present	4	Mexican American/Chicano/a history from 1900 to the present with an emphasis on migration, ethnicity, labor, civil rights, identity, and culture. This is the same course as Hst 326 and may be taken only once for credit.	
Fall 2014	M	CI	411 / 511	Classroom Management	1-3		Change course number and prefix to ITP 411/511, change title, description.

Fall 2014	M	CI	412 / 512	Teaching and Learning	1-3		Change course number and prefix to ITP 412/512, change title, description.
Fall 2014	M	CI	415 / 515	Reflective Practitioner	1-3		Change course number and prefix to ITP 452/552.
Fall 2014	M	CI	417 / 517	Integrated Methods II	1-5		Change course number and prefix to ITP 438/538, change title, descriptions, credit hours.
Fall 2014	M	CI	418 / 518	Integrated Methods III	1-3		Change course number and prefix to ITP 439/539, change title, description, credit hours.
Fall 2014	M	CI	419 / 519	Special Secondary Methods	3		Change course number and prefix to ITP 424/524, change title, description, credit hours.
Fall 2014	M	CI	435 / 535	Planning, Assessment, and Curriculum	3		Change course number and prefix to ITP 453/553.
Fall 2014	M	CI	437 / 573	Professional Development and Reflection	2		Change course number and prefix to ITP 454/554.
Fall 2014	M	CI	438 /538	Language and Literacy Development of Diverse Learners	3		Change course number and prefix to ITP 455/555.
Fall 2014	M	CI	448 / 548	Advanced Methods-Special Subject Fields in the Secondary School	3		Change course number and prefix to ITP 428/528, change title, description, credit hours.
Fall 2014	N	CI	496 / 596	Second Language Acquisition and Development for K-12 Educators	3	Gain historical perspectives on language teaching. Study major concepts, theories, research and variables related to the nature and acquisition of language. Consider individual differences and patterns common to all learners. Collect/analyze natural language from language learners. Construct environments that support ESOL/bilingual students' language/literacy development and content-area achievement. Prerequisites: Admission to the Secondary Graduate Teacher Education Program (GTEP), the Secondary Dual Endorsement Program (SDEP), or the Bilingual Teacher Pathway (BTP) Program.	
Fall 2014	N	CI	497 / 597	Assessment of Language and Content Learning for K-12 English Learners	2	Consider fair, accurate, and meaningful assessment for English learners. Learn about common standards-based assessment instruments. Examine differences between and uses for assessments measuring language proficiency and content area achievement as they affect ESOL and bilingual student learning. Explore issues in classroom-based assessment of ELLs. Prerequisites: Admission to the Secondary Graduate Teacher Education Program (GTEP), the Secondary Dual Endorsement Program (SDEP), or the Bilingual Teacher Pathway (BTP) Program.	
Fall 2014	M	CI	516	Integrated Methods I	1-5		Change course number and prefix to ITP 540; change title, description and credit hours.
Fall 2014	M	CI	521	Reading and Composition in the Content Areas	3		Change course number and prefix to ITP 520, change title, description.
Fall 2014	M	CI	550	Student Teaching I, Early Childhood	4-6		Change course number and prefix to ITP 545, change description, credit hours.
Fall 2014	M	CI	551	Student Teaching II, Early Childhood	9-15		Change course number and prefix to ITP 546, change description, credit hours.
Fall 2014	M	CI	552	Student Teaching I, Elementary	4-6		Change course number and prefix to ITP 548, change description, credit hours.
Fall 2014	M	CI	553	Student Teaching II, Elementary	9-15		Change course number and prefix to ITP 549, change description, credit hours.

Fall 2014	M	CI	554	Student Teaching I, High School	4-6		Change course number and prefix to ITP 532, change description, change credit hours.
Fall 2014	M	CI	555	Student Teaching II, High School	9-15		Change course number and prefix to ITP 533, change description, credit hours.
Fall 2014	M	CI	556	Student Teaching I, Middle Level	4-6		Change course number and prefix to ITP 530, change credit hours.
Fall 2014	M	CI	557	Student Teaching II, Middle Level	9-15		Change course number and prefix to ITP 531, change credit hours.
Fall 2014	M	CI	563	Teacher as Researcher	4		Change course number and prefix to ITP 551, change title, description, course credits.
	M	Comm	200	Principles of Communication	4	Introduces the skills and concepts students need for literacy in communication and provides a broad introduction to the perspectives on communication that will be encountered in upper-division Communication courses. Prerequisite for Comm 311, Comm 316 and Comm 326. Expected preparation: Communication 100 or other lower division communication classes.	Change prerequisites.
	M	Comm	212	Mass Communication and Society	4		Change course number to Comm 322.
Fall 2014	N	Comm	320	Introduction to Political Communication	4	Communication activities relating directly to the election of candidates and the passage of initiatives. Presented through the context of deliberative democracy and the First Amendment to the U.S. Constitution, which provides a set of "political rules of the road" for democratic processes.	
	M	Comm	322	Mass Communication and Society	4		Change course number from Comm 212.
Fall 2014	N	Comm	346	Humor, Irony, and Laughter in Communication	4	An introduction to theories of humor, irony, and laughter from social-interactional perspectives. Particular attention is given to how humor, irony, and laughter are used and understood in conversation and other forms of discourse. Prerequisites: Comm 200 or appropriate SINQ.	
Fall 2014	M	Comm	412 / 512	Media Effects	4	Surveys social scientific theories of mass communication. Prerequisite: upper-division standing. Expected preparation: core communication courses (Comm 200, Comm 311, Comm 316, Comm 326), and Comm 322 – Mass Communication & Society.	Change course title and prerequisites.
Fall 2014	M	Comm	415 / 515	Problems of Intercultural Communication	4	Builds upon the theories and issues discussed in the introductory course by including contemporary and classical literature on multicultural and intercultural communication. Identifies and analyzes politically constructed categories of race, age, class, gender in society against the backdrop of debates on multiculturalism in the United States. Examines categorizations of race, class, etc. in their historical, social, and cultural context, and how those have influenced mass-mediated and interpersonal communication. Uses mass media (television, radio, daily print media, music) texts to provide examples of how we understand "difference" and "otherness" in our daily lives. Prerequisite: upper-division standing. Expected preparation: core communication courses (Comm 200, Comm 311, Comm 316, Comm 326), and Comm 215 – Introduction to Intercultural Communication.	Change prerequisites.
Fall 2014	D	Comm	417 / 517	Communication and Conflict			
Fall 2014	M	Comm	418 / 518	Advanced Interpersonal Communication	4	Theory course in which students analyze current concepts and theories related to interpersonal communication, comparing and contrasting various models and their relative adequacy in representing the complexity of communication processes. The impact on actual communicative practices is examined. The influence of particular historical perspectives and contemporary issues and trends on interpersonal communication is analyzed through evaluation of empirical data and general cultural texts. Research project required. Prerequisite: upper-division standing. Expected preparation: core communication courses (Comm 200, Comm 311, Comm 316, Comm 326), and Comm 218 – Interpersonal Communication.	Change prerequisites.

Fall 2014	D	Comm	477 / 547	Communication and Aging			
Fall 2014	M	Comm	420 / 520	Political Communication	4	An analysis of the relationship of communication to the exercise of politics and political power. Topics may include the ethics and practices of electoral politics, political ideologies, political advertising, propaganda, public opinion formation, the role of mass media as a source and form of political communication, speech writing, public policy writing and analysis, political news writing, and political campaigning. The focus is on how communication strategies and media can be used to organize onsent or dissent to ruling parties, representatives, and ideas. Prerequisite: upper-division standing. Expected preparation: core communication courses (Comm 200, Comm 311, Comm 316, Comm 326), and Comm 322-Mass Comm & Society or Comm 314- Persuasion.	Change prerequisites.
Fall 2014	M	Comm	422 / 522	Critical Theories in Mass Communication	4	Surveys critical and institutional theories of mass communication. Primary focus is analysis of the relationship between media and communication institutions and the state and other social institutions. Prerequisite: upper-division standing. Expected preparation: core communication courses (Comm 200, Comm 311, Comm 316, Comm 326), and Comm 322-Mass Comm & Society.	Change prerequisites.
Fall 2014	M	Comm	423 / 523	Advanced Organizational and Strategic Communication	4	Application of communication theory to the study of human interaction in the organizational context. Examination of the relationships between structural variables in the organization and informal communication channels, organizational culture, and strategic communication. Course requirements include completion and report of a research project. Prerequisite: upper-division standing. Expected preparation: core communication courses (Comm 200, Comm 311, Comm 316, Comm 326), and Comm 313 - Communication in Groups or Comm 323 - Introduction to Organizational Communication	Change prerequisites.
Fall 2014	M	Comm	427 / 527	Issues in International Communication	4	A study of historical and contemporary theories and practices in the conduct of trans-border communication. Topics may include international communication issues of law, diplomacy, conflict, the Cold War, international organizations, mass media, information, advertising and news flows, and social-economic development, as well as discussions of specific cases of cultural and institutional communication, spoken, written and produced, in various industrial and developing societies. Prerequisite: upper-division standing. Expected preparation: core communication courses (Comm 200, Comm 311, Comm 316, Comm 326), and Comm 215 - Introduction to Intercultural Communication	Change prerequisites.
Fall 2014	M	Comm	429 / 529	Health Communication Campaigns	4	In-depth examination of health communication campaigns that promote behavior change using theories at the individual, interpersonal, small group, and community levels. We will explore the current media environment, in which health communication campaigns can utilize a variety of communication channels including mobile phones, social networks, video games, and entertainment television. Prerequisite: upper-division standing. Expected preparation: core communication courses (Comm 200, Comm 311, Comm 316, Comm 326), and Comm 314 – Persuasion or Comm 329 - Introduction to Health Communication.	Change prerequisites.
Fall 2014	M	Comm	436 / 536	Communication and Cognition	4	Exploration of human communication from a cognitive perspective. Prerequisite: upper-division standing. Expected preparation: core communication courses (Comm 200, Comm 311, Comm 316, Comm 326).	Change prerequisites.
Fall 2014	M	Comm	437 / 537	Urban Communication	4	Course utilizes a cultural, contextual approach to the study of urban communication structures, processes and practices. Macro and micro features are examined with the goal of understanding the role of communication in structuring social life in urban environments. Relevant theories on urban life and multiple dimensions of verbal and nonverbal communication codes are examined as they apply in urban contexts. Theoretical and empirical approaches recognize urban centers as dynamic multicultural environments. Research project required. Prerequisite: upper-division standing. Expected preparation: core communication courses (Comm 200, Comm 311, Comm 316, Comm 326), and Comm 322 - Mass Comm & Society	Change prerequisites.

Fall 2014	M	Comm	438 / 538	Everyday Talk: Structure and Process	4	How humans organize talk, with a primary emphasis on face-to-face talk in an informal setting. Attention will be given to the structure of roles and turns, sequencing of stages and topics, issues of common ground and relevance, and cognitive processes of message origination and interpretation in particular contexts. Prerequisite: upper-division standing. Expected preparation: core communication courses (Comm 200, Comm 311, Comm 316, Comm 326), and Comm 218 - Interpersonal Communication or Comm 313 - Communication in Groups	Change prerequisites.
Fall 2014	M	Comm	440 / 540	Metaphor, Play, and Humor	4	How metaphor, play, humor, and other forms of "non-serious" language and gesture contribute to the creation of meaning and sustaining of relationships in everyday social interactions. Topics vary from quarter to quarter, and may include: metaphor; playful communication; humor and irony; and narratives. May be repeated for undergraduate or graduate credit. Prerequisite: upper-division standing. Expected preparation: core communication courses (Comm 200, Comm 311, Comm 316, Comm 326), and Comm 336 - Metaphors in Communication	Change prerequisites.
Fall 2014	M	Comm	487 / 587	Propaganda, Public Relations, and Media	4	The course encourages students to think critically about how mass media promote ideologies and agendas to influence opinion, policies and sales. Theories of media effects, propaganda and public relations explored. Prerequisites: upper-division standing with expected preparation in mass media and persuasion theories.	Change description.
Fall 2014	M	Comm	452 / 552	Gender and Race in the Media	4	Primarily examines the representations of gender and race, including age, class and sexual orientation in various media (mainstream and alternative), and will examine theoretical and methodological approaches which may be used to interpret these representations. In addition, considers the potential impact that media institutions have on people's lives, political decisions and social relations. The overall aim is for students to understand how their own cultural identities affect their media consumption and social positioning. This course is the same as WS 452; course may only be taken once for credit. Prerequisite: upper-division standing. Expected preparation: core communication courses (Comm 200, Comm 311, Comm 316, Comm 326), and Comm 322 - Mass Comm & Society	Change prerequisites.
Fall 2014	M	Comm	460 / 560	Framing and Mass Media	4	Examines how messages are constructed and the effects frames have on audiences. Framing theory is linked to propaganda, public relations, marketing, political communication and cognition, and has a rich theoretical and methodological tradition. Examines the conceptual definitions, and the underpinning theory and methodology used in framing scholarship. Agenda setting, bias and framing, public opinion formation, cultivation analysis, behavioral effects, and macrolevel and microlevel methods are also examined. Prerequisite: upper-division standing. Expected preparation: core communication courses (Comm 200, Comm 311, Comm 316, Comm 326), and Comm 322 - Mass Comm & Society	Change prerequisites.
Fall 2014	M	Comm	472 / 572	Communication and Public Opinion Seminar	4	This course explores research questions that relate to mass communication and American public opinion. Important normative and philosophical issues are identified and reviewed via early writings (ca. 1900) in social philosophy and social science. These issues are further investigated by examining relevant work from sociology, social psychology, and mass communication. Prerequisites: upper-division standing. Expected preparation: core communication courses and Comm 314 - Persuasion.	Change prerequisites.
Fall 2014	N	Coun	520	Collaborative Partnerships to Support Infants and Toddlers	1-3	Development and maintenance of effective partnerships among service providers and their respective systems is fundamental to the provision of quality services for infants, young children and their families. Students will examine systems of care and the impact of different systems from the perspective of family and community.	
Fall 2014	N	CR	307	Conflict Mangement Skills	4	Interactive survey of practical array of conflict management competencies with units on facilitation, consensus building, mediation, conflict analysis, conflict mapping, de-escalation, negotiation, conflict management system design, community organizing, conflict management careers. Theory, simulations, and student team presentations generate new competencies and evaluative opportunities.	

Fall 2014	N	CR	310	Fundamentals of Conflict Resolution	4	Undergraduate introduction to the study of foundational concepts in the field of conflict resolution. The course also introduces the impact that conflict resolution practice may have on the critique and construction of theory. Professional ethical issues and other dilemmas in conflict resolution practice are also studied. Prerequisites: CR 301.
Fall 2014	N	CR	311	Introduction to Conflict Resolution Psychology	4	Introduction to the psychological research and insights that illuminate conflict resolution theory and practice. A dual focus on both methods and research. Prerequisites: CR 301.
Fall 2014	N	CR	312	Introduction to Intercultural Conflict Resolution	4	Intercultural conflict resolution explored through intercultural communication theory, and through study of its relationship to processes of conflict and outcomes of resolution. Considers how intercultural conflict resolution operates within ourselves, among ourselves, and in the personal, professional, and world-at-large through dialogue, interaction, and the creative arts.
Fall 2014	N	CR	411	Conflict Resolution Career Preparation	4	Community based learning of variety and breadth of conflict transformation and peacebuilding through a combination of visits, field experience and project work. Development of reflective practice habits through online seminar discussion. Prerequisites: CR 301, CR 307 for majors only.
Fall 2014	N	CR	416	Evil and Hate	4	Explores the breakdown in dialogue surrounding the stereotyping and dehumanization of those who we view as "evil doers." Challenges unreflective use of the terms, "hatred" and "evil" in political rhetoric, creating a dangerous "us and them" dichotomy, and making reconciliation across cultures and viewpoints nearly impossible. Prerequisite: Upper Division standing
Fall 2014	D	CR	417	Introduction to Nonviolence	4	
Fall 2014	N	CR	419	Forgiveness and Atonement	4	Explores both the theoretical and practical advantages and difficulties with forgiveness and atonement. Emphasis on how forgiveness and atonement inform conflict resolution practices. Prerequisite: Upper Division standing
Fall 2014	N	CR	420 / 520	Individual and Group Reconciliation Processes	4	Explores various dimensions involved in the process of reconciliation between individuals, groups and societies. Topics covered include the evolution of historical wounds, memory, accountability, acknowledgment, restitution, forgiveness and truth. Case studies provide a focal point for class discussions and analysis. Prerequisites: upper-division standing and CR 301.
Fall 2014	N	CR	423 / 523	Dialogue Across Differences	4	An exploration of the theory and practice of dialogue to address conflict. Dialogue includes intention, purpose, process dimensions and outcomes and is utilized in various dimensions of peace and conflict resolution efforts. Dialogue crosses disciplines, creating a common thread through the many dimensions of peace work. Prerequisites: upper-division standing.
Fall 2014	N	CR	428 / 528	Human Values in War and Peace: Value Dilemmas, Contradictions and Resolutions	4	Critically reflects on how similarly or differently values and belief systems function under conditions of war and peace. Explores value conflicts and possible resolutions, as well as how different approaches to values may be conducive to violent conflict or to empowering peace on the international stage. Prerequisites: upper-division standing.
Fall 2014	N	CR	429	European Union as a Peacebuilding System	4	Interdisciplinary focus on the European Union as an inter- and trans-national system of conflict resolution and peace building. Examined by contrasting the nationalist conflicts of old Europe to post-war efforts in building a system of peace and security that transcends belligerent ethnocentric nationalism.
Fall 2014	N	CR	439 / 539	Family Mediation	4	In cases of divorce and custody Oregon State Law encourages/mandates the use of mediation. Particular concerns around power balancing, domestic violence, child-focused parenting, and other family issues will be explored. Specific training and ethical standards will be evaluated in relationship to the general practice of mediation. Prerequisites: upper-division standing.
Fall 2014	N	CR	440 / 540	Peer Mediation	4	Overview of programs in the schools where youth serve as mediators to resolve conflict between other students. Focus will be on successes and challenges as well as other approaches schools undertake to respond to student conflict. Opportunity to practice conflict resolution skills and analyze conflict dynamics of race and oppression. Prerequisites: upper-division standing.

Fall 2014	N	CR	441 / 541	Storytelling and Conflict Resolution	4	Storytelling plays a role in limiting, creating and sustaining creative conflict resolution. Critical thinking and deliberate analysis used to deconstruct the grand narratives of dominant discourse, explore counter narratives emerging from the margins, and examine how resolution – and social change – has surfaced as a result. Prerequisites: upper-division standing.	
Fall 2014	N	CR	442 / 542	Peace Education	4	A theoretical and practical introduction to the field of Peace Education. Explores the philosophical, cultural, pedagogical and curricular elements of Peace Education. Develops understanding of the theory and practice of effective conflict resolution education. Prerequisites: upper-division standing.	
Fall 2014	N	CR	443 / 543	U.S. Nationalism and Democracy in a Post-9/11 World	4	Examines the rise of American nationalism in the aftermath of 9/11 and its impact on America's relationship to the world. From a peace and conflict studies perspective, the narrative of American nationalism is investigated in contrast to the narrative of American democracy, examining implications for war and peace. Prerequisites: upper-division standing.	
Fall 2014	N	CR	444 / 544	Neighbors and Enemies: Cyprus, Greece and Turkey	4	Focuses on the protracted ethno-nationalist conflict in Cyprus and Greek-Turkish relations. The Cyprus problem is investigated as a case study in nationalist conflict in the context of domestic, regional and international conflict dynamics. Trends toward conflict de-escalation and reconciliation in the context of the EU are also studied. Prerequisites: upper-division standing.	
Fall 2014	N	CR	445 / 545	Gender and Conflict Resolution	4	Explores the social construction of gender and its impact on conflict. Psychological theories, violence and aggression, communication styles, culture, societal structures, conflict resolution paradigms and war and peacebuilding are analyzed. Examines micro and macro issues connected to gender, peace, conflict and violence. Prerequisites: upper-division standing.	
Fall 2014	N	CR	511	Research Methods in Conflict Resolution	4	Introduction to academic research, and specifically research within the interdisciplinary field of Conflict Resolution. Students will develop literacy in reading and understanding research, and will gain experience collecting and evaluating data.	
Fall 2014	M	CS	106	Computing Fundamentals II	4	Introduction to programming, appropriate for non-CS majors. Introduction to the logical thought processes and problem-solving strategies used when programming. Concepts presented include problem definition and requirements gathering, generating a description of a step-by-step solution (the algorithm), writing a program, testing, and documentation. The programming language Visual Basic is used; several programming projects are completed during the term. Expected preparation: high school algebra, knowledge of Windows and the ability to use Windows Explorer.	Change description.
Fall 2014	M	CS	162	Introduction to Computer Science	4	The goals of this class are to teach the syntax of C++ to students who already know how to program. Students are expected to be proficient at using conditionals, I/O, loops, and functions with arguments. Topics include: conditionals, I/O, files, functions, classes, pointers, dynamic memory, linear linked lists, and multi-dimensional arrays in C++, as well as program correctness, verification, and testing. Three hours lecture and one 3-hour laboratory. The laboratory emphasizes practical programming skills. Prerequisites: Prior programming experience equivalent to CS161. Co-requisites: concurrent enrollment in CS162L.	Change prerequisites.
Fall 2014	M	EAS	211	Statics	4	Principles and applications of static equilibrium to structures and machines. Prerequisites (must be passed with grade of "C" or better): Mth 252 or Mth 261; Ph 211 or Ph 221 (may be taken concurrently with EAS 211).	Change prerequisites.
	M	Ec	101	Contemporary Economic Issues	4		Change course number to Ec 200.
	M	Ec	200	Contemporary Economic Issues	4	Introduction to the economic approach to current political and economic issues. Topics will vary depending upon the instructor, but may include markets and competition, sustainable development and growth, poverty and inequality, government policy, international economic relationships, the economic approach to environmental protection.	Change course number from Ec 101; change description.
Fall 2014	M	Ec	201	Principles of Microeconomics	4	A study of the choices individuals face as participants in the markets for goods, services and factors of production like labor; behavior of profit-maximizing firms operating in markets with varying degrees of competitive pressure; potential role of government in intervening to influence market outcomes using taxes and subsidies; reasons for international trade and economic inequality.	Change title, description.

Fall 2014	M	Ec	202	Principles of Macroeconomics	4	A study of factor affecting the level of national income; the essentials of money and banking; the role of government expenditure and taxation in achieving economic stability, growth and development; international monetary issues including exchange rates and the balance of payments. Prerequisites: Ec 201.	Change title.
Fall 2014	M	Ec	575	Applied Advanced Econometrics	4		Change course number from 595.
Fall 2014	M	Ec	582	Advanced Macroeconomics	4		Change course number to 590.
Fall 2014	D	Ec	583	Impact Assessment	4		
Fall 2014	M	Ec	584	Applications of Advanced Microeconomic Theory	4		Change course number from 591.
Fall 2014	M	Ec	590	Advanced Macroeconomics	4		Change course number from 582.
Fall 2014	M	Ec	591	Applications of Advanced Microeconomic Theory	4		Change course number to 584.
Fall 2014	M	Ec	595	Applied Advanced Econometrics	4		Change course number to 575.
Fall 2014	D	Ec	411 / 511	Cultural Economics			
Fall 2014	M	Ec	427 / 527	Cost-benefit Analysis	4	Main theory and empirical methodologies for assessing costs and benefits of projects with varying timeframes and levels of uncertainty. Focus on public projects, including environmental, infrastructure and social service activities. Methodologies for valuation of nonmarketed goods, such as environmental services, also covered. Prerequisite: Ec 201.	Change course number from 485/585.
Fall 2014	M	Ec	485 / 585	Cost-benefit Analysis	4	Main theory and empirical methodologies for assessing costs and benefits of projects with varying timeframes and levels of uncertainty. Focus on public projects, including environmental, infrastructure and social service activities. Methodologies for valuation of nonmarketed goods, such as environmental services, also covered. Prerequisite: Ec 201.	Change course number to 427/527, change description.
Fall 2014	M	ECE	102	Engineering Computaton	4	Applying the principles of engineering analysis. Presenting technical content. Utilizing engineering software and writing scripts. Controlling external hardware via programming. Prerequisite: MTH 111 with a grade of C or better, or passing at the necessary level on the mathematics placement test (see PSU Math Department webpage at pdx.edu/math for information).	Change description and prerequisites.
Fall 2014	M	ECE	103	Engineering Programming	4	Introduction to software design, algorithms, data structures, and programming using the "C" language. Interfacing to sensors, actuators, and other hardware. Writing documentation and presenting technical content. Recommended preparation: ECE 102. Prerequisite: MTH 112 with a grade of C or better, or passing at the necessary level on the mathematics placement test (see PSU Math Department webpage at pdx.edu/math for information).	Change description and prerequisites.
Fall 2014	M	ECE	171	Digital Circuits	4	Foundation course in digital design. Topics such as number systems, basic logic gates, TTL device parameters, Boolean algebra, logic circuit simplification techniques, timing analysis, the application of MSI combinational logic devices, programmable logic devices, flip-flops, synchronous state machines and counters. Introduces students to a systematic design methodology. Uses computer based tools such as schematic capture programs, programmable logic development programs, and digital circuit stimulators. Prerequisite: Mth 112 with a grade of C or better, or passing at the necessary level on the mathematics placement test (see Math Department webpage at pdx.edu/math for information).	Change prerequisites.
Fall 2014	M	ECE	331	Engineering Electromagnetics I	4	Concept of a traveling wave with application to transmission lines; review of vector algebra and calculus in various coordinate systems; Maxwell's equations for magnetostatics and electrostatics; weekly lab. Prerequisites: Mth 254, Mth 256, Ph 223 or Ph 213.	Change description.
Fall 2014	M	ECE	332	Engineering Electromagnetics II	4	Maxwell's equations for time-varying fields; plane wave propagation and reflection; waveguide structures; radiation and antennas. Topics in wave propagation include scattering, optics, principles of radar, signal integrity and mathematical solution techniques; weekly lab. Prerequisite: ECE 331.	Change description.
Fall 2014	N	ECE	383	Nanotechnology: Simulation and Design	4	Introductory circuit simulation; properties of selected nanotechnology devices and systems; nanodevice simulation; development of nanodevice models. May be taken to satisfy the ECE technical writing requirement. This is the same course as SCI 383 and may be taken only once for credit. Prerequisites: junior standing or permission of the instructor.	
Fall 2014	D	ECE	530	Fault Tolerant Systems	4		

Fall 2014	M	ECE	418 / 518	Linear System Analysis I	4	Advanced concepts of continuous-time signals, systems, and transforms. Signals: periodicity, orthogonality, basis functions; system: linearity, super-position, time-invariance, causality, stability, and convolution integral; transforms: Fourier series and Fourier transform, Hilbert and Hartley transform, Laplace transform. Prerequisites: ECE 312.	Change prerequisites
Fall 2014	N	ECE	558	Embedded Systems Programming	4	Equips students with the skills required to program modern embedded systems. Topics include object oriented and event-based programming, multi-tasking, advanced sensors, databases, location-based services, and networking. Heavily project-oriented, allowing students to acquire hands-on experiences based on the foundational material taught in the lectures. Prerequisites: ECE 485 or ECE 585. Expected preparation: CS 202 and/or experience with Object-Oriented programming and Java.	
Fall 2014	D	ECE	563 / 663	Information Theory	4		
Fall 2014	D	ECE	584 / 684	Nanotechnology and Biosensors	4		
Fall 2014	D	ECE	593 / 693	Advanced Laser Systems	4		
Fall 2014	D	ECE	595 / 695	Optoelectronics I	4		
Fall 2014	N	Ed	518	Inclusive Elementary Classrooms	2	Overview of teaching students who experience disabilities and giftedness, with special consideration to cultural/linguistic factors. Provides an overview of applicable laws and regulations, eligibility for special education, and the IEP process. Explores the ramifications of learning diversity for the inclusive elementary classroom teacher and instruction that supports all learners. Prerequisites: admission into the Graduate Teacher Education Program.	
Fall 2014	N	Ed	519	Inclusive Secondary Classrooms	3	Overview of teaching students who experience disabilities and giftedness, with special consideration to cultural/linguistic factors. Provides an overview of applicable laws and regulations, eligibility for special education, and the IEP process. Explores the ramifications of learning diversity for the inclusive secondary classroom teacher and instruction that supports all learners. Prerequisites: admission into the Graduate Teacher Education Program.	
Fall 2014	N	Ed	550	Foundations in Early Childhood and Inclusive Education	4	Focus on foundations of and approaches to inclusive early childhood education. Learn about developmental and inclusive practices, develop foundational knowledge and examine and challenge assumptions about inclusive teaching and learning. Prerequisites: admission to the Masters in Early Childhood Education: Inclusive Education and Curriculum and Instruction.	
Fall 2014	N	Ed	551	Child Development in Early Childhood and Inclusive Education	4	Study a multicultural perspective of child development (i.e., physical, social and emotional, language and literacy, cognitive) for young children (prenatal – preschool) with a range of ability levels. Examine theories of development and how those theories apply to young children with differing ability levels. Prerequisites: admission to the Masters in Early Childhood Education: Inclusive Education and Curriculum & Instruction.	
Fall 2014	N	Ed	552	Issues in Early Childhood and Inclusive Education	4	Study contemporary issues related to inclusion in early childhood programs for children of all ability levels. Identify and respond to critical issues in contemporary early childhood education as it relates to inclusion. Analyze those issues from a variety of perspectives. Prerequisites: admission to the Masters in Early Childhood Education: Inclusive Education and Curriculum and Instruction.	
Fall 2014	N	ELP	540	Urban Farm Education: Leveraging Policy and Research to Cultivate Garden-based Education in Practice	4	Students explore the policy and research context surrounding garden-based education in schools and communities with a focus on instructional design and assessment. As a learning community, students examine how policies and educational practices can pose barriers or potential leverage points for systemic change, and develop and teach integrated garden-based curriculum.	
Fall 2014	N	Eng	325	Postcolonial Literature	4	Introduction to key texts, themes, issues, and approaches in postcolonial literature and theory.	
Fall 2014	N	ESM	150	Orientation to Environmental Sciences and Management	4	Self-paced online orientation that covers: virtual tour of PSU and ESM facilities, surveys of the two degrees, pre-requisite courses, UNST or Honors, Career Center, graduate programs, internships, creating a portfolio, student interviews, and steps to getting started.	

Fall 2014	N	ESM	416 / 516	Ecosystem Restoration	4	Ecological theories and principles that guide restoration practices in a variety of ecosystems, including rivers, wetlands, forests, and prairies. Causes of ecosystem degradation, motivations for restoration, and factors that influence success in restoration. Interactions between science, philosophy, engineering, environmental management, policy, and politics in the dynamic world of ecosystem restoration. Prerequisites: ESM 335 or Geog 345 or Bi 357 or ESM 321.	
Fall 2014	N	ESM	435 / 535	Natural Resource Policy and Management	4	The impact of natural resource policy and management on regional and federal levels. Case studies will focus on the complex settings, difficult socioeconomic contexts and charged political environments. Prerequisites: ESM 335.	
Fall 2014	N	ESM	444 / 544	Forest Ecology	4	Study of forested ecosystems, their biotic and abiotic drivers, and the theories and tools that we use to understand forest ecosystems and project how they will change. Forest ecology considers forest succession, carbon and nitrogen dynamics of forests, forest soils, climate and weather, water and energy balances, and disturbances. Prerequisites: ESM 320 and ESM 321.	
Fall 2014	N	ESM	451	Project Management for Scientists	4	Managing a science or environmental project is unique, requiring knowledge of the science discipline, project management, public participation and regulatory requirements. Topics include: defining project and tasks; understanding client or internal needs; establishing project organization, staffing, costs; public participation; satisfying regulatory requirements; adaptive management. Group work using case studies included. Prerequisites: upper-division standing.	
Fall 2014	N	ESM	463 / 563	Water Quality Policy and Management	4	Review and assessment the efficacy of water quality laws, regulations, and policies. Focus on the Water Quality Standards for the State of Oregon for temperature, bacteria, chemical toxins and nutrients. Role of science in decisions protecting and restoring rivers from water pollution. Prerequisites: ESM 335.	
Fall 2014	N	ESM	465 / 565	Investigating Ecological and Social Issues in Urban Parks and Natural Areas	4	Examines ecological and social aspects of urban forests. Emphasizes response of native plants to physical and introduced species impacts from urbanization. Students will collect ecological and visitor impact data in local parks, study issues pertaining to sustainability and management based on an understanding of short term and longer-term disturbances. Prerequisites: Environmental Studies or Environmental Science major or Bi 357.	
Fall 2014	N	ESM	554	Graduate Research Toolbox	2	Students will develop experimental design, research, grant writing, oral presentation, thesis preparation, peer review, library, and time management skills relevant to their graduate degree.	
Fall 2014	N	Fin	310	Entrepreneurial Finance and Accounting	4	Introduction to the fundamental concepts of entrepreneurial finance and accounting. Covers the financial aspects of developing, financing, planning, managing, valuing and assessing new business ventures. Equips students with the quantitative, financial and accounting skills required to successfully develop, finance and manage a new venture.	
Fall 2014	M	Fr	325	French Phonetics and Phonology	4	Introduction to the sounds of French: their place and manner of articulation (phonetics) as well as how they pattern with respect to each other and as influenced by morphological and syntactic factors (phonology). Expected preparation: Fr 301 or Fr 302.	Change expected preparation.
Fall 2014	M	Fr	414 / 514	Advanced French Grammar	4	A systematic approach to the study of French grammar and syntax for majors and prospective teachers. Prerequisite: Fr 303.	Change prerequisites.
	M	Geog	380	Maps and Geographic Information	4		Change course credits.
Fall 2014	M	Geog	445 / 545	Resource Management Topics	4	Focuses on advanced topics in administration and management of natural resources. Reviews historical issues and today's struggles for a sustainable approach in the development of natural resource policy. Emphasis will vary, e.g. water resources, energy resources, public lands. Course may be repeated once for a total of 8 credits with different topics. Prerequisite: upper-division standing.	Change description.
Fall 2014	N	Geog	449 / 549	Geography of Food	4	This class explores the geography of food: food production, distribution, preparation, and consumption; food politics, markets, urban and commercial farming; food movements, connections of cuisines and regions, and foods and farming in the Pacific Northwest. Prerequisite: Upper-division or graduate standing.	

	M	Geog	497 / 597	Spatial Quantitative Analysis	4	Introduction to the principles of inferential spatial statistics. Topics include point pattern analysis, spatial autocorrelation, spatial interpolation, and multivariate spatial data analysis. Prerequisites: Geog 496/596; Stat 243 and 244.	Change prerequisites.
Fall 2014	N	Hst	325	Mexican American/Chicano History I, 1492-1900	4	Mexican American/Chicano/a history from the Conquest of the Americas to 1900 with an emphasis on empire, civil rights, identity, culture, sexuality, and war. This is the same course as ChLa 325 and may be taken only once for credit.	
Fall 2014	N	Hst	326	Mexican American/Chicano History II, 1900-Present	4	Mexican American/Chicano/a history from 1900 to the present with an emphasis on migration, ethnicity, labor, civil rights, identity, and culture. This is the same course as ChLa 326 and may be taken only once for credit.	
Fall 2014	N	Hst	333	Food and Power in US History	4	Course uses the topic of food to better understand the history of American culture, environments, social relations, technology, territorial expansion, immigration, gender relations, agribusiness, and international politics. Topics move chronologically from the colonial period through the twenty-first century.	
	M	Hst	339	The Environment and History	4	Introduction to the global history of human interactions with the environment from antiquity to the present, with a special focus on the history of political, social, cultural, and economic forces that have produced modern relationships to nature. Designed as an introductory course for students of all majors.	Change description.
Fall 2014	N	Hst	368	Brazil and Mexico in the 20th Century	4	A comparative history of these rising powers of Latin America, including economic, diplomatic and cultural history, and the history of revolution, popular protest, spirituality and the visual arts.	
Fall 2014	N	Hst	378	Pagans, Christians and Jews	4	Discusses the development and interaction of Roman paganism, Christianity and Judaism during the period of Late Antiquity. Topics include education, philosophy, asceticism, ritual, religious law, the image of the holy man and the phenomenon of religious polemic in the Later Roman Empire (c. 250-600 CE). This is the same course as JSt 378 and may be taken only once for credit.	
Fall 2014	N	Hst	379	History of Zionism	4	Zionism as ideology and practice in context of Jewish and European history. Includes society and culture Zionism created under the British mandate of Palestine, roots of the Arab-Jewish conflict in this context, and impact on Jewish life and politics in Eastern and Central Europe and the United States. this is the same course as JST 379 and can only be taken once for credit.	
Fall 2014	N	Hst	380	The Holocaust	4	An introduction to the Nazi-planned and -executed genocide of European Jewry known as the Holocaust. Topics includes the German and European contexts for the rise of Nazism; antisemitism and its links to Nazi ideology and policy; European Jewry in the interwar period; the "Final Solution"; resistance and "bystanders."	
Fall 2014	N	Hst	381	Kabbalah: The Jewish Mystical Tradition	4	Surveys the origins and development of the Jewish mystical tradition set against the context of Jewish religious, social, and intellectual history. Topics include mystical visions in ancient Jewish texts, medieval Kabbalah and the Zohar, the Sabbatean messianic movement, Hasidism, and contemporary uses of Kabbalah. This is the same course as JSt 381 and may be taken only once for credit.	
Fall 2014	M	ISQA	429	Transportation and Logistics Management	4	Overview of logistics including transportation, warehouse location and layout, inventory policies, distribution operations, and information systems. Prerequisite: BA 339 or BA 311.	Change prerequisites
Fall 2014	M	ISQA	439	Purchasing and Supply Chain Management	4	Deals with developing sound policies and procedures in managing the supply chain. Topics include supplier selection and evaluation, competitive bidding, contract development and administration, value analysis, and standardization. Prerequisite: BA 339.	Change prerequisites
Fall 2014	M	ITP	411 / 511	Classroom Management for Student Success	1-3		Change course number from CI 411/511.
Fall 2014	M	ITP	412 / 512	Learning and the Learner	1-3	Candidates identify themselves as learners, recognize the learning needs of their students, understand the learning theories relevant to educational practice, and identify the most useful elements of learning theories to inform their developing educational philosophy. Identify effective strategies and learning environments to maximize content and process outcomes for diverse students. Prerequisite: admission to a teacher education program.	Change course number from CI 412/512, change description.

Fall 2014	N	ITP	413 / 513	Technology as a Tool for Learning	3	Use of digital tools to enhance teacher productivity and professional development and for planning, instruction, and assessment of student learning. Employ technology to foster information literacy and digital citizenship. Engage diverse learners in inquiry, communication and collaboration, creation, visual design, and production of media. Prerequisites: Admission to the Secondary Graduate Teacher Education Program (GTEP), the Secondary Dual Endorsement Program (SDEP), or the Bilingual Teacher Pathway (BTP) Program.	
Fall 2014	N	ITP	414 / 514	Educating for Equity and Social Justice	3	Explore issues of identity, linguistics, race, ethnicity, sexual orientation, gender, social class, ability, and other forms of diversity. Teacher candidates gain an understanding of how culture influences educational processes, as well as their role and responsibility in creating socially just and equitable classrooms/schools, where all students and families are valued. Prerequisites: Admission to the Secondary Graduate Teacher Education Program (GTEP), the Secondary Dual Endorsement Program (SDEP), or the Bilingual Teacher Pathway (BTP) Program.	
Fall 2014	N	ITP	421 / 521	Secondary Art Methods	2-4	Issues and methods in selecting and organizing materials for instruction in middle level/high art education. Examines a variety of professional resources available to support learning. Introduces research-based instructional practices and lesson/unit planning. Situates teaching, learning, and assessment within the context of state and national standards. Prerequisites: Admission to the Secondary Graduate Teacher Education Program (GTEP), the Secondary Dual Endorsement Program (SDEP), or the Bilingual Teacher Pathway (BTP) Program.	
Fall 2014	N	ITP	422 / 522	Secondary English Language Arts Methods	2-4	Issues and methods in selecting and organizing materials for instruction in middle level/high school language arts education. Examines a variety of professional resources available to support learning. Introduces research-based instructional practices and lesson/unit planning. Situates teaching, learning, and assessment within the context of state and national standards. Prerequisites: Admission to the Secondary Graduate Teacher Education Program (GTEP), the Secondary Dual Endorsement Program (SDEP), or the Bilingual Teacher Pathway (BTP) Program.	
Fall 2014	N	ITP	423 / 523	Secondary Health and Physical Education Methods	2-4	Issues and methods in selecting and organizing materials for instruction in middle and high school health and K-12 physical education. Examines a variety of professional resources available to support learning. Introduces research-based instructional practices and lesson/unit planning. Situates teaching, learning, and assessment within the context of state and national standards. Prerequisites: Admission into the Master of Education degree program and admission into Teacher Education Program.	
Fall 2014	M	ITP	424 / 524	Secondary Mathematics Methods	2-4	Issues and methods in selecting and organizing materials for instruction in middle level and high mathematics education. Examines a variety of professional resources available to support learning. Introduces research-based instructional practices and lesson/unit planning. Situates teaching, learning, and assessment within the context of state and national standards.	Change course number from CI 419/519, change title, description, credit hours.
Fall 2014	N	ITP	425 / 525	Secondary Music Methods	2-4	Issues and methods in selecting and organizing materials for instruction in middle level/high music education. Examines a variety of professional resources available to support learning. Introduces research-based instructional practices and lesson/unit planning. Situates teaching, learning, and assessment within the context of state and national standards. Prerequisites: Admission to the Secondary Graduate Teacher Education Program (GTEP), the Secondary Dual Endorsement Program (SDEP), or the Bilingual Teacher Pathway (BTP) Program.	
Fall 2014	N	ITP	426 / 526	Secondary Science Methods	2-4	Issues and methods in selecting and organizing materials for instruction in middle level/high school science education. Examines a variety of professional resources available to support learning. Introduces research-based instructional practices and lesson/unit planning. Situates teaching, learning, and assessment within the context of state and national standards. Prerequisites: Admission to a graduate teacher preparation program.	

Fall 2014	N	ITP	427 / 527	Secondary Social Studies Methods	2-4	Issues and methods in selecting and organizing materials including digital resources for instruction in middle level and high school social studies education. Examines a variety of professional resources available to support learning. Introduces research-based instructional practices and lesson/unit planning. Situates teaching, learning, and assessment within the context of state and national standards. Prerequisites: Admission to the Secondary Graduate Teacher Education Program (GTEP), the Secondary Dual Endorsement Program (SDEP), or the Bilingual Teacher Pathway (BTP) Program.	
Fall 2014	M	ITP	428 / 528	Secondary World Languages Methods	2-4	Issues and methods in selecting and organizing materials for instruction in middle level and high school world languages. Examines a variety of professional resources available to support learning. Introduces research-based instructional practices and lesson/unit planning. Situates teaching, learning, and assessment within the context of state and national standards.	Change course number from CI 448/548, change title, description, course credits.
Fall 2014	M	ITP	438 / 538	Integrated Methods and Curriculum Design	2-6	Emphasize inquiry processes, and place-based, project-based approaches to teaching and learning in grades PK-8. Design integrated units of study that focus on social studies, health, art, music, and movement. Teacher Candidates spend approximately 30 hours working with children through an integrated, project-based community learning experience. Prerequisite: admission to a teacher education program.	Change course number from CI 417/517, change title, description, credit hours.
Fall 2014	M	ITP	439 / 539	Elementary Math Methods	3	Emphasizes meaningful understanding of elementary-level mathematical concepts as well as strategies for developing competence with procedures and problem solving. Situates teaching, learning, and assessment within the multiple contexts of elementary classrooms, state and national standards, and research-based practices. Prerequisites: admission to the Graduate Teacher Education Program.	Change course number from CI 418/518, change title, description, credit hours.
Fall 2014	N	ITP	442 / 542	Integrated Elementary Science Methods	2	Emphasis on effective methods and practices for developing integrated, interdisciplinary units of instruction. Explore approaches to teaching science at the elementary grades and integrating science content and processes with content and processes from other content areas (e.g., literacy, mathematics, the arts). Prerequisite: Admission to Elementary Graduate Teacher Education Program or Bilingual Teacher Pathway Program. Prerequisites: Admission to the Elementary Graduate Teacher Education Program or the Bilingual Teacher Pathway Program.	
Fall 2014	M	ITP	452 / 552	Reflective Practitioner	1-3		Change course number from CI 415/515.
Fall 2014	M	ITP	453 / 553	Planning, Assessment, and Curriculum	3		Change course number from CI 435/535.
Fall 2014	M	ITP	454 / 554	Professional Development and Reflection	2		Change course number from CI 437/537.
Fall 2014	M	ITP	455 / 555	Language and Literacy Development of Diverse Learners	3		Change course number from CI 438/538.
Fall 2014	N	ITP	515	Foundations of Culturally and Linguistically Responsive Practice at the Secondary Level	3	This course will equip secondary teacher candidates with knowledge and skills to facilitate instruction for English Language Learners (ELLs). Candidates learn the developmental progress of acquiring English for ELLs, and the role/responsibility of the teacher to create a positive climate and utilize instructional strategies that are culturally and linguistically responsive. Prerequisites: Admission into the Secondary Graduate Teacher Education Program, Secondary Dual Endorsement Program (SDEP), or the Bilingual Teacher Pathway (BTP) program, and others with instructor approval.	
Fall 2014	N	ITP	516	Engaging Young Adolescent Learners	3	Approaches for effectively educating young adolescents (10 to 15 year olds) in middle grades schools. Emphasizes identity formation, developmental responsiveness, motivation and engagement, culturally relevant practice, instructional strategies, and authentic learning opportunities. Examines educational policy and current trends in secondary school reform. Also addresses transitions occurring between school levels. Prerequisites: admission to the Graduate Teacher Education Program, Master's in Curriculum and Instruction and others with instructor approval.	

Fall 2014	N	ITP	517	Engaging Adolescent Learners	3	Approaches for effectively educating adolescent learners. Includes student motivation and engagement, instructional strategies, developmentally responsive approaches, culturally responsive practice, and authentic learning opportunities. Examines educational policy in middle grades schools (K-8, 6-8) and high schools (9-12) and current trends of high school/middle school reform. Prerequisites: admission to the Secondary Graduate Teacher Education Program, Master's in Curriculum and Instruction, and others with instructor approval.	
Fall 2014	N	ITP	518	Assessment for Learning	2	Concentrated study of key terminology around assessment and the application of multiple assessment methods to engage learners in their own growth, to monitor learner progress, and to guide instructional decision-making. Course includes strategies and procedures to collect, interpret and act on assessment data.	
Fall 2014	M	ITP	520	Literacies in the Disciplines	3	Course designed to help educators guide their students in acquiring skills needed for adequate reading, thinking, writing, and study in content areas. Emphasis on the functional teaching of reading and writing, the design and preparation of materials to use with textbooks in all school subjects. Prerequisite: admission to a teacher education program.	Change course number from CI 521, change title, description.
Fall 2014	N	ITP	529	Professional Seminar	1	A companion seminar during Student Teaching I in a middle or high school to support teacher candidates in developing, clarifying, and applying attitudes and beliefs about quality educational practices through professional collaborative reflection. Prerequisite: admission to the Secondary Graduate Teacher Education Program and concurrent enrollment in CI 554/556 Student Teaching I course.	
Fall 2014	M	ITP	530	Student Teaching I, Middle Level	4-8	Observation, collaborative and independent planning, teaching, assessment, and reflection under the guidance of the Cooperating Teacher and University Supervisor; related professional activities. Ongoing inquiry and connection of theory and practice, including methods coursework. Completion of the first unit of study. Prerequisites: admission to the teacher education program.	Change course number from CI 556, change credit hours.
Fall 2014	M	ITP	531	Student Teaching II, Middle Level	9-13	Observation, collaborative and independent planning, teaching, assessment, and reflection under the guidance of the Cooperating Teacher and University Supervisor; related professional activities. Ongoing inquiry and connection of theory and practice, including methods coursework. Completion of the second unit of study. Prerequisite: admission to the teacher education program.	Change course number from CI 557, change credit hours.
Fall 2014	M	ITP	532	Student Teaching I, High School	4-8	Observation, collaborative and independent planning, teaching, assessment, and reflection under the guidance of the Cooperating Teacher and University Supervisor; related professional activities. Ongoing inquiry and connection of theory and practice, including methods coursework. Planning and implementation of the first unit of study. Prerequisite: Admission to the teacher education program.	Change course number from CI 554, change description, credit hours.
Fall 2014	M	ITP	533	Student Teaching II, High School	9-13	Observation, collaborative and independent planning, teaching, assessment, and reflection under the guidance of the Cooperating Teacher and University Supervisor; related professional activities. Ongoing inquiry and connection of theory and practice, including methods coursework. Completion of the second unit of study. Prerequisite: Admission to a secondary teacher education program and successful completion of Student Teaching I.	Change course number from CI 555, change description, credit hours.
Fall 2014	N	ITP	534	Foundations of Culturally and Linguistically Responsive Practice at the Elementary Level	2	This course will equip elementary teacher candidates with knowledge and skills to organize instruction for English Language Learners (ELL). Candidates learn the developmental progress of acquiring English for ELL students, and the role/responsibility of teacher to create a positive climate and utilize instructional strategies that are culturally and linguistically responsive. Prerequisite: Admission into the Elementary Graduate Teacher Education Program. Prerequisites: Admission into the Elementary Graduate Teacher Education Program, Secondary Dual Endorsement Program (SDEP), or the Bilingual Teacher Pathway (BTP) program, and others with instructor approval.	
Fall 2014	N	ITP	535	Cultivating Responsive Elementary Classrooms	1	This three-part course explores approaches to designing the social, physical, and instructional environment of a classroom in a way that is responsive to students and supports learning. Summer and fall terms involve face-to-face sessions addressing classroom climate and culturally responsive practices. Winter term involves online discussion of differentiation and planning. Prerequisite: admission to Elementary Graduate Teacher Education Program.	

Fall 2014	N	ITP	536	Learning and Development	3	Prospective elementary educators will understand and apply principles of human learning and development. The psychology of learning in a school setting includes both individual and group generalizations. This course will explore the roles of teacher as facilitator of learning and decision maker to best meet learners' needs. Prerequisite: admission to Elementary Graduate Teacher Education Program.	
Fall 2014	M	ITP	540	Foundations of Literacy	3	An introduction to literacy processes. Address teaching practices specifically for elementary learners in grades PK-3. Examine emergent and early reading processes, how to assess them, and how to support their development in classrooms. Literacy development characteristics and teaching approaches for students who are culturally and linguistically diverse are addressed explicitly in the course. Prerequisite: admission to the teacher education program.	Change course number from CI 516, change title, description, course credits.
Fall 2014	N	ITP	541	Literacies in the Elementary Classroom	4	Emphasis on the methods and theories surrounding teaching and learning literacy in grades 3-8. Literacy development characteristics and teaching approaches for diverse learners are addressed, as well as the integration of literacy across content areas. Prerequisite: admission to Elementary Graduate Teacher Education Program.	
Fall 2014	N	ITP	543	Professional Collaboration in Elementary Education	1-3	This course progression over four terms develops knowledge and skills for collaborative professional learning centered on continuous improvement of instructional and assessment practices, a stance toward inquiry, and on supporting each student's learning needs. Prerequisite: admissions to the Elementary Graduate Teacher Education Program.	
Fall 2014	N	ITP	544	Clinical Support for Elementary Teachers	3	Synthesize learning from coursework and clinical experiences in a culminating cycle of inquiry that uses results of action research to inform a candidate's professional practice during full-time student teaching and implementing a unit of study. Provide opportunities to consult with colleagues and program faculty to support classroom research. Prerequisite: admission to the Elementary Graduate Teacher Education Program and concurrent enrollment in Student Teaching III.	
Fall 2014	M	ITP	545	Student Teaching I, Early Childhood	3-4	Observation, collaborative and independent planning, teaching, assessment, and reflection under the guidance of the Cooperating Teacher and University Supervisor; related professional activities. Ongoing inquiry and connection of theory and practice, including methods coursework. Prerequisite: Admission to the teacher education program.	Change course number from CI 550, change description, course credits.
Fall 2014	M	ITP	546	Student Teaching II, Early Childhood	6-9	Observation, collaborative and independent planning, teaching, assessment, and reflection under the guidance of the Cooperating Teacher and University Supervisor; related professional activities. Ongoing inquiry and connection of theory and practice, including methods coursework. Completion of the first unit of study. Prerequisite: Admission to the teacher education program.	Change course number from CI 551, change description, course credits.
Fall 2014	N	ITP	547	Student Teaching III, Early Childhood	12	Observation, collaborative and independent planning, teaching, assessment, and reflection under the guidance of the Cooperating Teacher and University Supervisor; related professional activities. Ongoing inquiry and connection of theory and practice, including methods coursework. Completion of the second unit of study. Seminar meetings and program events. Prerequisite: admissions to the Elementary Graduate Teacher Education Program.	
Fall 2014	M	ITP	548	Student Teaching I, Elementary	3-4	Observation, collaborative and independent planning, teaching, assessment, and reflection under the guidance of the Cooperating Teacher and University Supervisor; related professional activities. Ongoing inquiry and connection of theory and practice, including methods coursework. Prerequisite: Admission to the teacher education program.	Change course number from CI 552, change description, course credits.
Fall 2014	M	ITP	549	Student Teaching II, Elementary	6-9	Observation, collaborative and independent planning, teaching, assessment, and reflection under the guidance of the Cooperating Teacher and University Supervisor; related professional activities. Ongoing inquiry and connection of theory and practice, including methods coursework. Completion of the first unit of study. Prerequisite: Admission to the teacher education program.	Change course number from CI 553, change description, course credits.
Fall 2014	N	ITP	550	Student Teaching III, Elementary	12	Observation, collaborative and independent planning, teaching, assessment, and reflection under the guidance of the Cooperating Teacher and University Supervisor; related professional activities. Ongoing inquiry and connection of theory and practice, including methods coursework. Completion of the second unit of study. Seminar meetings and program events. Prerequisite: admission to Elementary Graduate Teacher Education Program.	

Fall 2014	M	ITP	551	Research and Classroom Inquiry	1-4	Principles of teacher action research. Involves systematic observation and examination of one's own practice. Develop stance toward critical reflection through an inquiry cycle of gathering and analyzing classroom data. Identify area of focus about an aspect of teaching and/or learning to systematically study during clinical experience. Prerequisite: admission to the teacher education program.	Change course number from CI 563, change title, description.
Fall 2014	N	ITP	580	Student Teaching I, in Inclusive ML/HS	6	Observation, collaborative and independent planning, teaching, assessment, and reflection under the guidance of the Cooperating Teacher and University Supervisor; related professional activities. Ongoing inquiry and connection of theory and practice, including methods coursework. Completion of the first unit of study. Seminar meetings and program events.	
Fall 2014	N	ITP	581	Student Teaching II in Inclusive ML/HS	12	Observation, collaborative and independent planning, teaching, assessment, and reflection under the guidance of the Cooperating Teacher and University Supervisor; related professional activities. Ongoing inquiry and connection of theory and practice, including methods coursework. Completion of the second unit of study. Seminar meetings and program events.	
Fall 2014	N	Jpn	553	Critical Approaches to Japanese Language and Literature	4	Comparative study of intellectual approaches and research of Japanese language or literature, with an emphasis on secondary texts (research). Topics will vary from year to year.	
Fall 2014	N	JSt	378	Pagans, Christians and Jews	4	Discusses the development and interaction of Roman paganism, Christianity and Judaism during the period of Late Antiquity. Topics will include education, philosophy, asceticism, ritual, religious law, the image of the holy man and the phenomenon of religious polemic in the Later Roman Empire (c. 250-600 CE). This is the same course as Hst 378 and may be taken only once for credit.	
Fall 2014	N	JSt	381	Kabbalah: The Jewish Mystical Tradition	4	Surveys the origins and development of the Jewish mystical tradition set against the context of Jewish religious, social, and intellectual history. Topics include mystical visions in ancient Jewish texts, medieval Kabbalah and the Zohar, the Sabbatean messianic movement, Hasidism, and contemporary uses of Kabbalah. This is the same course as Hst 381 and may be taken only once for credit.	
Fall 2014	M	Lib	541	Reference and Information Systems and Services	3		Change credit hours.
Fall 2014	M	Lib	548	Organization of Library Media Collections	3		Change credit hours.
Fall 2014	M	Ling	101	PEP Grammar/Writing	8		Change credit hours.
Fall 2014	M	Ling	106	PEP Speaking/Listening	4		Change credit hours.
Fall 2014	M	Ling	111	Grammar/Writing Level 1	8		Change credit hours.
Fall 2014	M	Ling	114	Reading Level 1	4		Change credit hours.
Fall 2014	M	Ling	116	Speaking/Listening Level 1	4		Change credit hours.
Fall 2014	M	Ling	121	Grammar/Writing Level 2	8		Change credit hours.
Fall 2014	M	Ling	124	Reading Level 2	4		Change credit hours.
Fall 2014	M	Ling	126	Speaking/Listening Level 2	4		Change credit hours.
Fall 2014	M	Ling	131	Grammar/Writing Level 3	8		Change credit hours.
Fall 2014	M	Ling	134	Reading Level 3	4		Change credit hours.
Fall 2014	M	Ling	136	Speaking/Listening Level 3	4		Change credit hours.
Fall 2014	M	Ling	142	Advanced English Grammar	4		Change credit hours.
Fall 2014	M	Ling	143	Guided Research Writing	4		Change credit hours.
Fall 2014	M	Ling	144	Academic Reading	4		Change credit hours.
Fall 2014	M	Ling	147	Understanding Academic Lectures	4		Change credit hours.
Fall 2014	M	Ling	152	Grammar and Editing	4		Change credit hours.
Fall 2014	M	Ling	153	Independent Research Writing	4		Change credit hours.
Fall 2014	M	Ling	154	Advanced Academic Reading	4		Change credit hours.
Fall 2014	M	Ling	155	Discussion Skills	4		Change credit hours.
Fall 2014	M	Ling	156	Public Speaking	4		Change credit hours.
Fall 2014	N	Ling	182	Social Media: Interacting Online	4	Students develop computer communication skills by examining and researching the social aspect of the Internet. Explore and examine the use of social media and its importance in society. Participate in weekly online discussions and create individual blogs.	
Fall 2014	N	Ling	183	Community Reporting	4	Students explore American culture at PSU and in the Portland community by creating a class newsletter. Focus on interviewing and reporting techniques, writing and revising articles, and developing proofreading and editing skills. Students select articles and design the layout.	

Fall 2014	N	Ling	184	Cultural Themes in Reading	4	Students develop reading skills, cultural knowledge, and communicative ability by reading and discussing authentic, unabridged texts. Improve critical thinking and discussion skills through writing and answering questions, paraphrasing and relating ideas, and delivering presentations. Cultural themes rotate each term.	
Fall 2014	N	Ling	185	Practically Speaking: Conversational English	4	Students improve conversational fluency by learning strategies for oral communication and focusing on common words and phrases used in spoken American English. Learn about the cultural knowledge required to navigate everyday interactions. Improve pronunciation and practice speaking in authentic situations.	
Fall 2014	N	Ling	186	Communication through Volunteering	4	This course provides community and classroom opportunities for the development of oral communication skills, critical thinking, and intercultural competence. Experience Portland culture and practice communication strategies through group projects with PSU students, elementary schools, and other community partners.	
Fall 2014	N	Ling	187	Multimedia Listening	4	Students expand their listening skills and increase their familiarity with American culture through a wide variety of sources such as music, movies, TV shows, Internet videos, radio programs, extended conversations, and live entertainment. Cultural themes rotate each term.	
Fall 2014	N	Ling	418 / 518	Linguistic Morphology	4	The study of words and word structure. Focuses on analyzing word formation across languages. Examines the relationship between morphology, syntax and phonology, the theoretical assumptions that underlie morphological analysis, and some applications of morphological analysis. Prerequisite: Ling 390.	
Fall 2014	N	Ling	419 / 519	Language Typology	4	Studies and classifies languages according to their structural features. Introduces (structural) linguistics and studies structures across languages. Prepares students for more theoretical and analytical courses in the department. Prerequisite: Ling 390.	
Fall 2014	M	Ling	453	Graduate Preparation: Research and Writing for NNS	4		Change credit hours.
Fall 2014	M	Ling	454	Graduate Preparation: Reading Strategies for NNS	4		Change credit hours.
Fall 2014	M	Ling	456	Graduate Preparation: Oral Communications for NNS	4		Change credit hours.
Fall 2014	D	Ling	565	Administration of ESL/EFL Programs	4		
Fall 2014	D	Ling	413 / 513	Linguistics Semantics			
Fall 2014	D	Ling	422 / 522	How Do People Learn a Second Language	3		
Fall 2014	D	Ling	423 / 523	Taking Stock: Assessment and Evaluation in Programs with Language Minority Students	2		
Fall 2014	D	Ling	474 / 574	ESL in the Workplace			
Fall 2014	N	Mgmt	421 / 521s	Design Thinking For Social Innovation	4	Engagement with the applied process of social problem analysis and solution development using principles of lean entrepreneurship and design thinking. Exposure to the dynamic and growing field of social innovation and social entrepreneurship through direct communication with leading global social innovators, research, analysis and practical application. Prerequisites: Sophomore standing or better, competitive PSU or transfer GPA (3.0 or higher with consideration made for special circumstances), and satisfactory completion of a short essay question. Prerequisites not required for graduate students.	
Fall 2014	N	Mgmt	422 / 522s	Money Matters for Social Innovation	4	Participants will learn how to assess market size, create a business model, evaluate and prepare common financial statements, develop nonprofit and for-profit budgets, and identify and utilize the best funding sources and legal forms for social ventures. Prerequisites: Mgmt 421/521s and sophomore standing or higher.	
Fall 2014	N	Mgmt	423 / 523s	Storytelling and Impact Measurement for Social Innovation	4	Mastery of storytelling and impact measurement is a key element for effective social innovation. Students will develop effective personal and organizational storytelling skills, examine and apply concepts of personal leadership, marketing strategy, impact analysis and reporting, and approaches to scaling innovation. Prerequisites: Mgmt 422/522s; sophomore standing or higher.	

Fall 2014	N	Mgmt	442	Human Resources Information Technologies	4	Fundamental HR information technology concepts and best practices. Designed for Human Resources Management and Management majors. Topics include: HRIT management, Application Service Providers (ASP), Software as a Service (SaaS), HR software evaluation, Social Media trends, HRO outsourcing, enterprise resource planning, and System Development Life Cycle. Prerequisites: Mgmt 351.	
Fall 2014	N	Mgmt	481	Entrepreneurship	4	This course focuses on the entrepreneurial practices and tools for development of a startup company, for intrapreneurial efforts in growing business, and also directing a personal career path. Topics include innovation, idea generation, evaluation, financial analysis, feasibility, business planning development and competition. Prerequisites: admission to the School of Business Administration.	
Fall 2014	M	Mktg	338	Professional Selling	4	An overview of personal selling as an element of the marketing function for both industrial and retail professional sales with an emphasis on the sales process including prospecting, approaching, presenting, negotiating, closing and follow-up. Topics include sales careers, sales strategies and tactics, buyer behavior as part of individual and group purchase processes, establishing and building customer relationships and the role of selling in the marketing effort. In addition to formal theoretical coursework, students practice sales skills in role plays, presentations and other exercises requiring practical application of selling theory. Prerequisite: BA 205.	Change prerequisites.
Fall 2014	D	Mktg	430	Entrepreneurship	3		
Fall 2014	N	Mktg	437 / 537	Athletic and Outdoor Product Planning	4	Provides insight into the product planning process for apparel, footwear, and hard goods in the athletic and outdoor industry. Provides an overview and hands on group project experience of ideating, creating, producing, merchandising, marketing and delivering a product to market. Prerequisites: BA 311.	
Fall 2014	M	Mktg	466	Principles of International Marketing	4	Differences between domestic and international marketing are examined. A market-oriented conceptual foundation relating international channels of distribution, financing, documentation, transportation organizing, and staffing is presented. Prerequisites: BA 311.	Change prerequisites.
	M	Mth	254	Calculus IV	4	An introduction to differential and integral calculus of functions of several variables and applications. Prerequisites: Mth 253 or Mth 252 and Mth 261.	Change prerequisites.
Fall 2014	N	Mth	300	Introduction to Mathematical Reasoning	4	Fundamental abstract concepts common to all branches of mathematics, including first order predicate calculus, sets and functions, and elements from group theory and the foundations of analysis. Special emphasis is placed on the ability to understand and construct rigorous proofs. Prerequisites: Mth 253, Mth 261.	
	M	Mth	311, 312	Introduction to Mathematical Analysis I	4,4	A rigorous treatment of the concepts of analysis. Properties of the real numbers. Sequences. Functions of a real variable: limits, continuity, and differentiability. Integration on the real line. Series of real numbers. Series of functions. Uniform convergence. Power series. Courses must be taken in sequence. Prerequisite: Mth 253.	Change title, description, prerequisites. Create Mth 311, 312 sequence.
	M	Mth	312	Introduction to Mathematical Analysis II	4	A rigorous treatment of the concepts of analysis. Properties of the real numbers. Sequences. Functions of a real variable: limits, continuity, and differentiability. Integration on the real line. Series of real numbers. Series of functions. Uniform convergence. Power series. Courses must be taken in sequence. Prerequisite: Mth 253.	Change title, description, prerequisites. Create Mth 311, 312 sequence.
	M	Mth	313	Advanced Multivariable Calculus	4	Differential and integral calculus of functions of several variables, the inverse and implicit function theorems, vector field theory, line and surface integrals, Green's, Stokes', and Gauss' theorems. Prerequisite: Mth 254 and Mth 312.	Change title, description, prerequisites, separate from Mth 312 sequence.
Fall 2014	N	Mus	356	Jazz and American Culture: How History Shaped Our Music, Then and Now	4	Examines jazz and its development in the context of American history. Jazz, pre-jazz, contemporary practice, and related sub-genres explored through listening and analysis. The cultural context from which the music emerged dissected and discussed. Covers period from the mid-1800s to today.	
Fall 2014	N	Mus	363	The Music of the Beatles	4	Study of the development of the Beatles' music from the late 1950's through the early 1970's. Students will gain a deeper understanding of the music through elementary musical analysis of form, harmony, and recording studio techniques. The cultural context from which their music emerged and their significant influence on popular culture will be examined.	

Fall 2014	N	PA	314	Students as Leaders	4	Introduces the concepts of leadership from theoretical and practical perspectives. Students will explore their own leadership competencies using the Social Change Model in relation to individuality, group dynamics and community building. Through in-class activities, interviews, and research, students will examine leadership as an individual/group process to create social change.
Fall 2014	N	PA	315	Managing People for Change	4	This course examines today's workforce and the new competencies required to manage people to meet the corresponding modern day challenges. It borrows from contemporary discussions about public sector (government and nonprofit) organizations as well as private sector organizations. Topics include human capital, workplace politics, intergenerational challenges, and job/wage disparities. Prerequisites: junior standing.
Fall 2014	N	PA	430	Recruitment of Volunteers	2	This course takes a marketing approach to volunteerism. Interactive activities and discussion build on applying basic principles of volunteerism; examining different styles of volunteering; building a recruiting plan; examining marketing for volunteers; and managing recruitment. Assignments are interactive and designed to build applicable skills. Prerequisites: upper-division standing.
Fall 2014	N	PA	431	Training of Volunteers	2	This course engages students in organizing training and continuing education sessions for volunteers. Topics include: how adults learn, learning styles, building content, measurable learning objectives, selecting the best teaching techniques, and evaluation of learning. Assignments are interactive designed to build skills directly applicable to a manager of volunteers program. Prerequisites: upper-division standing.
Fall 2014	N	PA	432	Leadership and Management of Volunteer Programs	2	The healthy organization aligns support for staff who work with volunteers, makes volunteers an integral part of all work, provides staff development, and rewards staff accomplishments related to work with volunteers. In this course students will gain an understanding of the impact of communication style and leadership on volunteer programs. Prerequisites: upper-division standing.
Fall 2014	N	PA	433	Evaluation and Recognition of Volunteer Programs	2	Students are exposed to evaluation methods, types, and styles for programs and for individual volunteers. Motivational theories are connected to the effectiveness of different type of recognition. Assignments are interactive and designed to build skills directly applicable to a manager of volunteers program. Prerequisites: upper-division standing.
Fall 2014	D	PA	603	Dissertation		
Fall 2014	N	PAP	412 / 512	Introduction to Policy Advocacy	3	Examines the importance of public policy advocacy for public and nonprofit organizations and the impact of policy advocacy on society. Prerequisite: Upper-division standing.
Fall 2014	N	PAP	413 / 513	Ethics and Public Policy	4	An examination of the normative dimensions of public policy, focusing both on the ethical issues raised by the means of policymaking as well as the values that might shape the ends of public policy. Prerequisite: Upper-division standing.
Fall 2014	N	PAP	415 / 515	Comparative Public Policy	4	Introduction to theories, methods, and cases in comparative public policy. Emphasis on policy learning and applied comparative policy analysis. Unique and shared characteristics of policies in different countries or regions. Topics may include welfare and environmental policy. Prerequisite: upper-division standing.
Fall 2014	N	PAP	481 / 581	Democratic Theory	4	Critical examination of the principles of democratic politics, including important statements in the history of political thought and contemporary political theory. Issues discussed include participation, deliberation, electoral competition, constitutionalism, and the challenges of democratic legitimacy in the context of US institutions and increasing globalization. Prerequisite: Sophomore standing or higher.
Fall 2014	N	PAP	508	Professional Development Plan	3	Professional development planning workshop for students enrolled in the Master of Public Policy program. Students work with faculty to prepare a professional development plan, including career-goals, portfolio creation, job networking, and a program exit interview. Prerequisite: Enrollment in the Master of Public Policy Program.
Fall 2014	N	PAP	509	Public Policy Project	3	Summative project for students enrolled in the Master of Public Policy program. Options include a research-oriented report or a client report linked to a short internship or placement experience. Prerequisite: Enrollment in the Master of Public Policy Program.

Fall 2014	N	PAP	511	Introduction to Public Policy	3	This course explores fundamental concepts and approaches to public policy analysis and advocacy. Policy actors, process and issues are all part of the domain. The course will introduce students to a number of current policy issues.	
Fall 2014	M	PAP	611	Normative Foundations of Governance	3	A survey of the major theories of the normative basis of governance that have shaped approaches to political legitimacy in the modern era.	Change title, description.
Fall 2014	D	PAP	612	Governance, Social Change, and Rule of Law Systems	3		
Fall 2014	M	PAP	613	Organization Theory and Behavior	3	An examination of the structure and design of organizations, the interaction of organizations and their environment, and the behavior of individuals within organizations. Application to problems of administration and governance.	Change title, description.
Fall 2014	D	PAP	618	Political and Organizational Change	3		
Fall 2014	D	PAP	619	Civic Capacity	3		
Fall 2014	N	PAP	621	Comparative Political Institutions	3	This course examines the performance, capabilities, and overall function of governments worldwide. Emphasis on advanced analyses of theories and concepts in comparative politics, with a particular focus on institutions of the state.	
Fall 2014	D	PAP	643	Resolving International Conflicts	4		
Fall 2014	D	PAP	657	Policy Topics in Advanced Political Economy	4		
Fall 2014	N	PAP	690	Research Design for Politics and Policy	4	This course helps students understand the processes, design, and the philosophical foundations of research. The focus of this course is to train students to become researchers who can design professional-quality research, and write a research proposal that will satisfy the requirements for a doctoral dissertation or grant proposal	
Fall 2014	D	PAP	694	Analysis of the Impacts of Social and Management Practices on Ecosystem Services	4		
Fall 2014	M	Ph	445 / 545	Microelectronic Device Fabrication I	4	The first part of the series includes crystal growth, crystal structure, wafer preparation, ion implantation, doping and diffusion, oxidation, defects, heterogeneous chemical reactions, thermodynamics and kinetics of basic processes such as diffusion and oxidation. These concepts are applied both to IC and photovoltaic device fabrication. Realistic process flows, physical metrology, device structure, electrical behavior and their trade-offs are discussed. Extension and limitation of "top-down" processing to fabrication of nanoscale structures such as nano-rods, nano-wires, etc., and application of these to devices are also introduced. Prerequisite: Ph 314 or consent of instructor.	Adds 400 level to current 500 level and change to description and prerequisites.
Fall 2014	M	Ph	446 / 546	Microelectronic Device Fabrication II	4	The emphasis of second part of this series is on metallization, dielectrics, and multilevel interconnects. Metallization issues discussed will include silicides, barrier layers, interconnects, multilevel metallization architecture, and low-k dielectrics. This is followed by discussion of deposition and properties of various dielectric films. Epitaxial growth and properties of SOI and SiGe devices are also covered. In all these discussions, physics related to fabrication of nanoscale devices and special effects that come into play at these dimensions will be examined. Assignments will include computer simulations of device fabrication (i.e., virtual fab software). Prerequisites: Ph 445/545 or consent of instructor.	Adds 400 level to current 500 level and change to description and prerequisites.
Fall 2014	M	Ph	447 / 547	Microelectronic Device Fabrication III	4	The third part of this series starts with the techniques required to pattern the nanoscale structures on wafers. These techniques include electron beam, x-ray, EUV, and photolithography, including discussion of resist technology. This is followed by methods to produce these structures using wet and dry methods. Discussion of dry processing includes fundamentals and applications of plasmas for etching and deposition (e.g., high density plasmas), including plasma damage. The limitations of fabrication and operation of nano-scale devices are discussed. Special project for this class will involve fabrication of a virtual device (bipolar junction transistor) with specified electrical performance parameters using the virtual fab software. Prerequisite: Ph 446/546 or consent of instructor.	Adds 400 level to current 500 level and change to description and prerequisites.

Fall 2014	M	PHE	325	Nutrition for Health	4	Examines basis for and quality of current nutritional requirements, standards, and guidelines. Studies evidence regarding current food fads and controversies. Analyzes personal dietary practices.	Change course number from 425, change prerequisites.
Fall 2014	N	PHE	327	Community Nutrition	4	This course provides students with an understanding of community nutrition as a career. Course topics include program planning, policies, resources, and issues specific to community nutrition.	
Fall 2014	N	PHE	328	Health and Housing Across the Lifecourse	4	Addresses social, cultural, and environmental forces on the relationships between health and housing throughout the life-course. Topics include health disparities in housing quality and type; interventions to improve housing and neighborhood health; and international models of housing. Public and private strategies to prevent or solve housing-related health problems will be emphasized.	
Fall 2014	M	PHE	351	Film and Health	4		Change course number from 455.
Fall 2014	M	PHE	354	Social Gerontology	4		Change course number from 454.
Fall 2014	M	PHE	425	Nutrition for Health	4		Change course number to 325, change prerequisites.
Fall 2014	M	PHE	454	Social Gerontology	4		Change course number to 354.
Fall 2014	M	PHE	455	Film and Health	4		Change course number to 351.
Fall 2014	N	PHE	472	Marketing Public Health	4	From behavior change to policy change, how do we make the healthy choice the easy choice? This course will explore the attitudes we bring to our public health work, and tools and strategies we can use to develop our effectiveness in improving health outcomes for individuals and society. Prerequisites: junior standing.	
Fall 2014	M	PHE	519	Introduction to the Etiology of Disease	3	The biological and molecular bases of public health: the immune system, genomics, environmental exposures. The evidence-based role of biology in ecological models of population health, its integration in disease prevention and control policies and programs. Effects of behavior on biology. Legal, social, ethical issues will be considered. Prerequisites: Admission to the OHSU/PSU Master of Public Health program.	Change prerequisites.
Fall 2014	M	PHE	521	Quantitative Research Design and Analysis	3	Introduction to quantitative research design and statistical analysis. Emphasis on development of a research proposal. Topics include descriptive research, experimental and quasi-experimental research, univariate statistical procedures, and methods for planning and writing a research report. PHE 530 Epidemiology I and PHE 510 Introduction to Biostatistics (or graduate equivalents) are prerequisites for this course.	Change description and prerequisites.
Fall 2014	N	Phi	344	Military Ethics	4	Examination of the central conceptual, ethical, and existential issues concerning war and the military as an institution and a culture. Topics include theories of war, military values, and the ethics of technology (UAVs, WMDs), insurgency, and terrorism.	
Fall 2014	N	Phi	367	Philosophy of Sport	4	An examination of the central conceptual, ethical, and existential issues concerning sports. Topics include the nature and role of sports in human flourishing, theories of embodiment, and the morality of sports as an institution and culture including competition and violence.	
Fall 2014	N	PS	389	Environmental Political Theory	4	Examines the conceptual and normative issues surrounding the politics of the environment, including the understanding of environmental problems suggested by various theoretical frameworks, including democratic theory, economic rationalism, sustainability, and green radicalism. Issues discussed include the idea of nature in the history of political thought, climate change, and animal rights.	
Fall 2014	N	Psy	429	The Psychology of Race and Gender in Sport	4	Using a social psychological approach, this course will examine how issues of race and gender affect the sporting domain. Specifically, the course will emphasize how social psychological theories of intergroup relations, stereotyping, prejudice, and discrimination impact athletes, coaches, referees, and fans. Prerequisites: upper-division standing.	

Fall 2014	N	Sci	327	Oceans and Society	4	Provides a working knowledge of how the physical, chemical and biological ocean environment impacts the development and distribution of marine communities. Discussions on how humans interface with marine systems, how marine systems impact global sustainability, the environmental, economic and ethical responsibilities humans have for our marine systems.	
Fall 2014	N	Sci	415 / 515	Understanding the Next Generation Science Standards: Energy and Matter	4	This course will provide current and future teachers with the science content knowledge they will need to teach science as presented in the Next Generation Science Standards (NGSS) at the elementary level. . The course will be conducted through an integrated program of short lectures, labs, and student projects. Prerequisites: upper-division standing.	
Fall 2014	N	Sci	416 / 516	Understanding the Next Generation Science Standards: Change over Time.	4	This course will provide current and future teachers with the science content knowledge they will need to teach science as presented in the Next Generation Science Standards (NGSS) at the elementary level. . The course will be conducted through an integrated program of short lectures, labs, and student projects. Prerequisites: upper-division standing.	
Fall 2014	N	Sci		Understanding the Next Generation Science Standards: Interactions and Systems	4	This course will provide current and future teachers with the science content knowledge they will need to teach science as presented in the Next Generation Science Standards (NGSS) at the elementary level. . The course will be conducted through an integrated program of short lectures, labs, and student projects. Prerequisites: upper-division standing.	
Fall 2014	M	Soc	350	Coming of Age: Adulthood in the US, Europe, and Asia	4		Change title.
Fall 2014	M	Soc	460 / 560	Youth Subcultures	4	Youth as crisis and in crisis. Focus on methodology, ethnomethodology, and field experience; students will create ethnographs. Examination of the science of semiotics to understand subcultural style as language. Expected preparation: Soc 397. Prerequisite: Soc 200.	Change prerequisites.
Fall 2014	D	Soc	536	Social Movements	4		
Fall 2014	M	Span	301, 302, 303	Third-year Spanish	4,4,4	Continued work on the Spanish language at intermediate-advanced level. Prepares student for upper-division classes. Intensive grammar review. Span 301 emphasizes listening comprehension and speaking.Expected preparation: Span 203. Span 302 emphasizes reading and writing. Expected preparation: Span 301. Span 303 emphasizes oral and written skills in order to prepare student for literary analysis and critical writing. Expected preparation: Span 301 and 302.	Change prerequisites.
Fall 2014	M	Span	325	Spanish Phonetics and Phonology	4	Introduction to the sounds of Spanish: their place and manner of articulation (phonetics) as well as how they pattern with respect to each other and as influenced by morphological and syntactic factors (phonology). Prerequisites: Eight credits of either Span 301, Span 302, or Span 303.	Change prerequisites.
Fall 2014	M	Span	330	Peninsular Culture and Civilization	4	Historical development of life, thought, and the arts in Spain. Prerequisites: Eight credits of either Span 301, Span 302, or Span 303.	Change prerequisites.
Fall 2014	M	Span	331	Latin American Culture and Civilization	4	Historical development of life, thought, and the arts in Latin America. Prerequisites: Eight credits of either Span 301, Span 302, or Span 303.	Change prerequisites.
Fall 2014	D	Span	340	Fundamentals of Spanish Literary Studies	4		
Fall 2014	M	Span	341	Pre-modern Cultural and Literary Foundations	4	Study of Medieval and/or pre-Colombian cultural texts and practices that form the foundations of Spanish literary traditions. Prerequisites: Span 301, Span 302, Span 303.	Change title, description and prerequisites. Separate from sequence.
Fall 2014	M	Span	342	Early Modern and Colonial Cultural and Literary Expression	4	Study of Early Modern Spanish and/or Hispanic American literary practices and works from the 15th to the 17th century. Prerequisites: Span 301, Span 302, Span 303.	Change title, ddescription, and prerequisites. Separate from sequence.
Fall 2014	M	Span	343	Cultural and Literary Expressions of Independence	4	Study of Spanish and/or Hispanic American literary practices and works in the context of 18th-, 19th-, and 20th-century independence and republican movements. Prerequisites: Span 301, Span 302, Span 303.	Change title, ddescription, and prerequisites. Separate from sequence.
Fall 2014	M	Span	344	Modern Cultural and Literary Expressions	4	Study of Spanish and/or Hispanic American literary practices and works in the 20th century with emphases on war, dictatorship, revolution and globalization. Prerequisites: Span 301, Span 302, Span 303.	Change title, ddescription, and prerequisites. Separate from sequence.
Fall 2014	N	Span	345	Present-Day Cultural and Literary Expression	4	Study of contemporary Spanish and/or Hispanic American literary practices, works, and new media and works in global and digital contexts. Prerequisites: Span 303, Span 340.	
Fall 2014	M	Span	411	Advanced Spanish	4	Intensive training in composition, translation, and conversation. May be taken concurrently with Span 414/514. Prerequisites: Span 301, 302, and 303.	Change prerequisites.

Fall 2014	M	Span	414	Advanced Spanish Grammar	4	A thorough study of grammar and syntax for majors and prospective teachers. May be taken concurrently with Span 411/511. Prerequisites: Span 301, 302, and 303.	Change prerequisites.
Fall 2014	M	Span	421	Major Topics: Peninsular Prose	4	Study, analysis, and critique of major prose works of Spain by authors such as Fernando de Rojas, Cervantes, Galdos, Unamuno, and Goytisolo. Prerequisites: 8 credits of Span 341, 342, 343, 344, or 345.	Change prerequisites.
Fall 2014	M	Span	422	Major Topics: Peninsular Drama	4	Study, analysis, and critique of major dramatic works of Spain by authors such as Lope de Vega, Tirso de Molina, Calderon de la Barca, Zorrilla, Garcia Lorca, and Buero Vallejo. Prerequisites: 8 credits of Span 341, 342, 343, 344, or 345.	Change prerequisites.
Fall 2014	M	Span	423	Major Topics: Peninsular Poetry	4	Study, analysis, and critique of the poetry of Spain by authors such as Berceo, Gongora, Quevedo, Machado, Jimenez, and Cernuda. Prerequisites: 8 credits of Span 341, 342, 343, 344, or 345.	Change prerequisites.
Fall 2014	M	Span	427	Major Topics: Latin American Prose	4	Study, analysis, and critique of major prose works of Latin America by authors such as Garcia Marquez, Fuentes, Paz, Vargas Llosa, Mastretta, and Borges. Prerequisites: 8 credits of Span 341, 342, 343, 344, or 345.	Change prerequisites.
Fall 2014	M	Span	428	Major Topics: Latin American Drama	4	Study, analysis, and critique of major dramatic works of Latin America by authors such as Gambaro, Benedetti, Usigli, Diaz, and de la Parra. Prerequisites: 8 credits of Span 341, 342, 343, 344, or 345.	Change prerequisites.
Fall 2014	M	Span	429	Major Topics: Latin American Poetry	4	Study, analysis, and critique of major prose works of Latin America, by authors such as Daro, Huidobro, Vallejo, Neruda, Guillen, and Mistral. Prerequisites: 8 credits of Span 341, 342, 343, 344, or 345.	Change prerequisites.
Fall 2014	M	Span	430	Major Topics: Ibero-American Film	4	Study, analysis, and critique of films from Ibero-America on such topics as national film traditions, Cinema Novo, Third Cinema, violence, migration, gender studies, and globalization. Course may be repeated for credit when topics vary. Prerequisites: at least 8 credits of Span 341, 342, 343, 344, or 345.	Change prerequisites.
Fall 2014	M	Span	434	Major Topics: Peninsular Multiple Genres	4	Study, analysis, and critique of works in multiple genres on such topics as Medieval Literature, the Celestina, Women Writers, Literature of the Franco Years, the Poetry & Drama of Garcia Lorca, and the Generation of '98. Course may be repeated for credit when topics vary. Prerequisites: at least 8 credits of Span 341, 342, 343, 344, or 345.	Change prerequisites.
Fall 2014	M	Span	436	Major Topics: Latin American Multiple Genres	4	Study, analysis, and critique of works in multiple genres on such topics as Transvestism, Feminism, Sickness & Literature, Prose & Poetry of Borges, and Pre-Colombian Literature. Course may be repeated for credit when topics vary. Prerequisites: at least 8 credits of Span 341, 342, 343, 344, or 345.	Change prerequisites.
Fall 2014	M	Span	490	History of the Spanish Language	4	Study of the development of the Spanish language in terms of phonological, morphological, and syntactical changes. Prerequisites: Span 301, 302, 303, and 335.	Change prerequisites.
Fall 2014	M	Span	494	Spanish Linguistics	4	Introduction to the basic concepts of linguistics and their application to the Spanish language. Emphasis on practical analysis of the sound system and the grammatical system. Brief survey of the historical development, followed by an analysis of the phonetics, phonemics, morphology, and syntax of modern Spanish. Must be taken in sequence. Prerequisites: Span 301, 302, 303, and 325. Expected preparation: 4 credits of linguistics.	Change prerequisites.
Fall 2014	M	Span	497	Applied Spanish Linguistics	4	A practical application of linguistics to modern Spanish. Emphasis on a contrastive analysis of the structure of Spanish and English. Prerequisite: Span 301, 302, and 303. Recommended prerequisites: 4 credits of linguistics.	Change prerequisites.
Fall 2014	M	Span	498	Spanish Syntax	4	A practical approach to Spanish Syntax. Study and analysis of syntactical functions and sentence structure. Emphasis on modern grammatical theory and findings. Examination of discourse connectors. Prerequisite: Span 301, 302, and 303. Expected preparation: 4 credits of linguistics.	Change prerequisites.
Fall 2014	N	Span	554	Hispanic Multiple Genres	4	Critical works of Latin American and/or Spanish authors.	
Fall 2014	D	SpHr	389	Sign Language: Theory and Practice	4		
Fall 2014	M	SpHr	487 / 587	Hearing Sciences	4	Introductory course in audiology emphasizing basic acoustics and psychoacoustics, anatomy and physiology of the ear, hearing measurement, and types and causes of hearing impairment. Prerequisite: Junior level standing.	Change prerequisites, drop 587.
Fall 2014	M	SpHr	488 / 588	Clinical Audiology	4	Introduction to the audiological test battery. Topics include bone-conduction, masking, speechaudiometry, and objective tests. Auditory pathologies and their audiometric correlates are also covered. Expected preparation/required co-requisite: SpHr 487. Prerequisites: junior level standing.	Change prerequisites, drop 588.

Fall 2014	D	SpHr	555	Hearing Aids I			
Fall 2014	D	SpHr	556	Hearing Aids II			
Fall 2014	D	SpHr	557	Hearing Aids Laboratory			
Fall 2014	D	SpHr	569	Advanced Audiology Practicum			
Fall 2014	D	SpHr	571	Advanced Hearing Science I			
Fall 2014	D	SpHr	572	Advanced Hearing Science II			
Fall 2014	D	SpHr	573	Industrial audiology			
Fall 2014	D	SpHr	574	Objective Auditory Measures			
Fall 2014	M	SpHr	581	Stuttering	3		Change credit hours from 2 to 3.
Fall 2014	M	SpHr	582	Voice Disorders	3		Change credit hours from 2 to 3.
Fall 2014	M	Stat	451 / 551, 452 / 552	Applied Statistics for Engineers and Scientists I, II	4, 3	An introduction to techniques of applied probability, statistics, and data analysis. Stat 451/551: sample spaces, probability and counting measures, discrete and continuous probability models, sampling theory, and computer applications. Stat 452/552: point and interval estimation, hypothesis testing, regression, correlation, experimental design, analysis of variance, multivariable experiments, nonparametrics, statistical quality control, and computer applications. Prerequisites: Mth 252.	Change prerequisites.
Fall 2014	M	SW	500	Field Instruction I-VI			Change course number to SW 511 and SW 512.
Fall 2014	M	SW	511	Foundation Field Placement & Seminar	1-4		Change credit hours to variable 1-4.
Fall 2014	M	SW	512	Advanced Field Placement	1-4		Change credit hours to variable 1-4.
Fall 2014	N	SW	515	Skills for the Helping Process - Groups	3	Help students to develop assessment and intervention skills across multiple levels. Assess types and stages of groups, roles, and group dynamics. Develop a group proposal. Learn how to begin, facilitate, and end a group with clients, organizations, and communities.	
Fall 2014	M	SW	520	Social Welfare History and Policy	3	Addresses the policy making of social welfare and explores values and ethical choices affecting the process. Examines historical and contemporary issues and their impact on the social work profession and social welfare. Highlights relations among social problems, social policies, and social practices as means for promoting social justice.	Change title, description, course credits.
Fall 2014	D	SW	522	Issues in Child Welfare	3		
Fall 2014	M	SW	530	Skills for the Helping Process - Individuals and Families	3	Focuses on helping to develop engagement, assessment, and intervention skills for work with individuals and families. Will complete a biopsychosocial assessment, learn how to work collaboratively with service users to define goals, and how to select and facilitate relevant interventions. Prerequisite SW 540.	Change title, description, prerequisites.
Fall 2014	D	SW	531	Generalist Social Work Practice II	4		
Fall 2014	M	SW	532	Advocacy and Empowerment	3	Builds the advocacy skills to form purposive and equitable partnerships with service users, their communities, and organizations. Includes empowerment-based practices in micro, mezzo and macro work. Healthy critique of the role of the professional social worker as "expert" is examined.	Change title, description, prerequisites, credit hours.
Fall 2014	M	SW	539	Social Justice in Social Work	3	Social justice and oppression based on race, ethnicity, gender, sexual orientation, religion, (dis)ability, and social class explored. Will examine social, political, and cultural processes as they affect intergroup and intra-group relations. Explores the role of the social worker as border crosser, cultural learner, and agent of change.	Change description.
Fall 2014	M	SW	540	Human Development Through the Lifespan	3	Presents and critiques basic knowledge of human development from conception to late adulthood. Provides skills to organize information about human dynamics using developmental frameworks, while still stressing the multi-causal and bi-directional nature of behavioral outcomes.	Change title, description, prerequisites.
Fall 2014	M	SW	541	Societal, Community and Organizational Structures and Processes	3	Service users and social work practitioners are constrained by societal, community, and organizational structures and processes. Social construction of conceptual frames with social work values and ethics are critiqued. Theories addressing the behavior and change in process of communities and organizations are applied and evaluated.	Change title, description, prerequisites.
Fall 2014	D	SW	546	Human Sexuality and Social Work	3		

Fall 2014	M	SW	550	Research and Evaluation I	3	Introduction to research and evaluation in social work. Introduces critical consumption of research and ethics. Addresses qualitative and quantitative social work research, group designs, single system designs, and evaluation. Considers measurement, sampling, design, and data collection. Addresses social and economic justice, cultural sensitivity, inclusion, and diversity.	Change title, description.
Fall 2014	M	SW	551	Research and Evaluation II	3	Focuses on techniques of quantitative data analysis and introduces methods of qualitative data analysis. Descriptive statistics, probability theory and hypothesis testing, and inferential methods. Addresses connections between (a) social work research and evaluation and (b) social and economic justice, cultural sensitivity, inclusion, and diversity. Prerequisite: SW 550	Change title, description.
s	D	SW	557	Psychotherapy: Theory and Practice	3		
Fall 2014	N	SySc	332	Introduction to Agent-Based Modeling	4	At the crossroads of biology, ecology, economics, philosophy, and artificial intelligence, this course introduces Agent-Based Modeling: a new computer-based approach that's grounded in the perspective that the complex macro-level patterns we observe in social systems are emergent from decentralized and self-organizing micro-level interaction among agents following simple and localized rules.	
Fall 2014	N	SySc	334	Modeling Social-Ecological Systems	4	Understanding social and ecological cycles and the interaction between social and ecological systems is essential for making human actions more sustainable. This course uses ideas from UNEP's Green Economy Initiative and an easy-to-learn computer modeling approach called System Dynamics to explore the interaction between and dynamics within social-ecological systems.	
Fall 2014	N	SySc	336	Networks and Society	4	Introduces the new science of networks and its role in modeling the inherently complex problems of an interconnected, global society. Simulations explore the evolution of hierarchical, small-world and scale-free network structures and their dynamic behaviors. Implications for information democracy, cyber-terrorism, alternative economies (among other topics of student interest) are discussed.	
Fall 2014	N	SySc	338	Decision Making in Complex Environments: A View Towards Collective Action and Social Change	4	An interdisciplinary course that explores the heuristics through which individuals, groups and communities make their decisions in response to their environmental conditions. Such actions are sometimes optimal, sometimes sub-optimal and sometimes outright irrational and harmful and the course identifies the reasons for deviations from rational behavior.	
Fall 2014	M	SySc	413 / 513	Holistic Strategies for Problem Solving	4	This course focuses on the application of Systems ideas and practitioner skill development across disciplines. Readings and diversified class sessions explore topics including the meaning of "holistic," multiple levels of analysis, multiple perspectives, values, learning organizations, frameworks/processes for problem-solving, and use of tools like graphic representations and causal-loop diagramming	Change title, description, prerequisites; add 400 level to existing 500 level.
Fall 2014	N	SySc	416 / 516	Systems Thinking for Business	4	Learn highly applied system thinking that delivers crucial insights into business or career situations where the usual methods are lacking. Specifically, to develop qualitative skills: system archetypes, leverage points, strategic behavior and game theory, ecosystems and evolution, and networks; and to gain high-level working knowledge of system modeling and simulation. Prerequisites: upper-division standing.	
Fall 2014	M	SySc	421 / 521	Systems Philosophy	4	A study of ideas central to systems theory and philosophy. The course focuses on concepts rather than mathematics, and organizes systems ideas around the theme of the fundamental "difficulties" (problems, imperfections, modes of failure) encountered by systems of widely differing types. Though these systems ideas often come from the natural sciences and engineering, they are significant also for the social sciences, the professional fields, and even the arts and humanities.	Adds 400 level to current 500 level and removes 600 level.
Fall 2014	N	SySc	423 / 523	Systems Ideas and Sustainability: Limits, Structural Change, and Resilience	4	This course offers a systems-theoretic perspective on sustainability. Using graph theory, non-linear dynamics, game/decision theory, thermodynamics, and theories of complexity and complex adaptive systems, the course explores systems insights into the challenge of environmental, economic, and social sustainability and systems principles to help us meet this challenge. Prerequisites: upper-division standing and completion of one of the SySc 3xxU cluster courses or permission of the instructor.	

Fall 2014	N	SySc	431 / 531	Data Mining with Information Theory	4	DMIT is a hands-on project-based course in which students use information- and graph-theoretic methods to analyze their own data to discover complex and nonlinear interactions. These methods are implemented in OCCAM, software developed at PSU, the main analytical tool used in the course. Prerequisites: upper-division standing and completion of one of the SySc 3xxU cluster courses or permission of the instructor.	
Fall 2014	M	SySc	452 / 552	Game Theory	4	Study of cooperation, competition, and conflict in social systems and associated issues of rationality. Emphasis is on game-theoretic models, particularly of dilemmas of collective action, their possible solutions, and their applications to social, economic, and political phenomena. Also covered are social choice theory, and other systems-theoretic approaches to cooperation, competition and conflict.	Adds 400 level to current 500 level and removes 600 level.
Fall 2014	N	SySc	518	System Sustainability and Organizational Resilience	4	Organizations are complex adaptive systems coupled with their environment, supply chains, strategic partners, and competitors. Survival depends on structural resilience market turbulence, and the environmental/political climate. Principles of emergent leadership and living systems are applied to various fields including strategic business management, environmental stewardship, health and public administration, technology management.	
Fall 2014	D	SySc	541 / 641	Dynamic Systems I	4		
Fall 2014	D	SySc	545 / 645	Information Theory	4		
Fall 2014	D	SySc	576 / 676	AI: Neural Networks II	4		
Fall 2014	M	USP	323	Real Estate Development and Finance	4	Examines urban real estate development, including location of activities within metropolitan areas, public/private partnerships, downtown redevelopment, and affordable housing. Presents tools to evaluate the financial feasibility and performance of a project, including discounting of cash flows and pro forma analysis. Uses a case study method showing how the design, development, market, finance, construction, and management of the project are integrated.	Change number from 423, change prerequisite.
Fall 2014	M	USP	350	Inclusive Engagement	4		Change title.
Fall 2014	M	USP	423	Real Estate Development and Finance	4	Examines urban real estate development, including location of activities within metropolitan areas, public/private partnerships, downtown redevelopment, and affordable housing. Presents tools to evaluate the financial feasibility and performance of a project, including discounting of cash flows and pro forma analysis. Uses a case study method showing how the design, development, market, finance, construction, and management of the project are integrated.	Change number to 323, change prerequisite.
Fall 2014	D	USP	611	America's Changing Neighborhoods	3		
Fall 2014	M	USP	612	Community, Planning, and Ethics	4	This course provides an introduction to the history and theory of community development in North America, the theory and practice of urban planning in North America, and to the ethics of civic and business practices linking the public, private, and non-profit sectors. It examines the tensions among market-based development, community action, and public intervention. Topics range in scale from housing style choices to aggregate trends in metropolitan form and cover a wide range of actors including individual households, private builders and developers, reformers, nonprofit organizations, and governments. The course will focus on plans as the outcome of political processes with specific consequences for different constituencies within the city.	Change description, course credits.
Fall 2014	N	Wr	331	Book Publishing for Writers	4	Provides an overview of the book publishing process, organized around the division of labor typically found in publishing houses. Through readings, discussion, and participation in mock publishing companies, students learn about editorial, design, production, marketing, distribution, and sales.	
Fall 2014	M	WS	306	Global Gender Issues	4	Study of gender issues in a global framework. Course will focus on a theme that can be studied comparatively, such as women and the environment; race, gender and food justice; public policy and gender. Topic may also highlight a particular country or national/ethnic group. This course may be repeated with different topics.	Change description.

Fall 2014	M	WS	308	Topics in Gender, Literature, and/or Popular Culture	4	Explores media, popular culture, and/or literature from a feminist perspective which focuses on how gender and other dimensions of power relations are expressed, reproduced, and challenged within cultural expression. Topics may include gender and popular music; girls' studies through media; class and gender in contemporary literature; depictions of masculinities in films/television; gender and the internet/social networking. This course may be repeated with different topics.	Change description.
Fall 2014	N	WS	346	Genes and Society	4	Explores the principles of genetics, molecular biology and biotechnology within social and historical context. Emphasis on the ethical issues arising from the intersection of genetics, technology and society, with attention to the role of gender, race and class in the formation and application of scientific knowledge. This is the same course as Bi 346 and may be taken only once for credit.	
Fall 2014	M	WS	377	Topics in Feminist Spirituality	4	Investigation of different forms of feminist spirituality. Topics may include feminist biblical interpretation, goddesses and spirituality, and eco-feminist spirituality. This course may be repeated with different topics	Change description.

Comments	

Course may no longer be repeated for credit.	

Adds 400 level to current 500 level.	
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Soc 436 Social Movements still active.	