

2010

Curriculum Change 2010-2011

Portland State University

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PSU Curricular Changes 2010-11

PSU Curricular Changes - Effective for Academic Year 2010-11								
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Name & contact info of person updating this template: Steve Harmon 503-725-4596								
Effective Term	New (N) Modified (M) Deleted (D)	Prefix	Course#	Course Title	Credits	Course Description	Type of Change (for modified classes only)	Comments
Fall 2010	M	Actg	511	Financial Accounting	4	An introduction to the reporting system used by businesses to convey financial information to parties external to the enterprise. Primary emphasis is placed on understanding the financial reports that are the end product of this system—what they do and do not tell the user about a business enterprise. The accounting principles, conventions, and concepts underlying financial reporting are examined with the objective of developing the ability to read, comprehend, and perform a basic analysis of financial statements. An introduction to environment performance reporting also will be provided. Ethics are essential in accounting and provide guidance on all aspects of financial reporting topics covered in this course.	Change description.	
Fall 2010	M	Actg	512	Managerial Accounting	2	Course participants study traditional managerial accounting issues, including operational budgeting, cash flow analysis and cost accounting. In addition, the course will consider financial models used in analyzing the economic viability of new products and services. Concurrent or Prerequisite: Actg 511	Change description and prerequisites.	
Fall 2010	M	Ar	311	Intermediate Media Arabic	4	Reading and translating intermediate-level Arabic newspaper and journal materials; viewing selected media and news websites. For non-native speakers of Arabic only. Does not replace Ar 301-2-3. Pre-requisite Ar 301-2-3.	Change title, description, and prerequisites.	
Fall 2010	N	Ar	204, 205, 206	Common Spoken Arabic for Beginners	4,4,4	Popular spoken Arabic ('ammiyyah/darijah) used in social gathering and general daily life encounters. Does not replace Ar 201-2-3. For non-natives speakers of Arabic only. Prerequisites: Ar 103.		
Fall 2010	M	Ar	304, 305, 306	Intermediate Common Spoken Arabic	4,4,4	Practical pan-Arab spoken Arabic used in social, intellectual gatherings and business in lieu of limited local spoken "dialects," or the fus-ha (literary Arabic), understandable and usable anywhere in the Arab world. For non-native speakers of Arabic only. Does not replace Ar 301-2-3 or satisfy B.A. requirement in foreign language. Pre-requisite Ar 203 and Ar 206.	Change title, description, prerequisites and credit hours from 2,2,2 to 4,4,4.	
Fall 2010	N	Ar	330	Arabic Calligraphy: Reading and Writing	4	Introduction to Arabic script since the fifth century A.D. Presentation of prominent pens and styles. Reading various exhibits covering all major styles. Mastering the writing of the ruq'ah style. Expected preparation: Ar 203 or consent of instructor.		
Fall 2010	D	Ar	412	Topics in Classical-Modern Arabic Poetry	4			
Fall 2010	N	Ar	412 / 512	Advanced Arabic Reading and Writing: Essay	4	Reading and translating advanced Arabic essays written by prominent Arab authors in various genres presenting social cultural topics, and writing critiques in Arabic. Prerequisites: Ar 303 or consent of instructor.		
Fall 2010	N	Ar	413 / 513	Advanced Modern Standard Arabic: Short Story and Novel	4	Reading modern Arabic short stories, condensed novels, or short biographies of prominent Arab authors; viewing related films; writing critiques in Arabic. Pre-requisites: Ar 412/512 or consent of instructor.		
Fall 2010	N	Ar	414 / 514	Advanced Classical Arabic: Prose	4	Introduction to the history of Arabic prose (7th – 18th century AD); reading selected advanced texts from classic literary works of major authors such as Ibn al-Muqaffa' "al-adab al-kabir" (The Grand Literature); al-Jahiz "al-bukhla'" (The Misers); al-Isfahani "kitab al-aghani" (The Book of Arabic Songs), Ibn 'Adiy "tahdhib al-akhlaq" (The Reformation of Morals) and Ibn 'Abd Rabbuh "al-'iqd al-farid" (The Unique Necklace); translating texts and writing literary reviews in Arabic. Prerequisites: Ar 412/512 or consent of instructor.		
Fall 2010	D	Ar	417	Folk Literature of the Arabs	4			
Fall 2010	D	Ar	418	Folk Poetry of the Arabs	4			

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Fall 2010	N	Ar	419 / 519	Folk Proverbs of the Arabs	4	Reading and analyzing Arabic folk proverbs representing a wide range of critical social-cultural issues and moral values; writing critiques. Prerequisites: Ar 301 and Ar 304 or consent of instructor.		
Fall 2010	N	Ar	420 / 520	Folk Tales of the Arabs	4	Introduction to the oral tradition of the Arabs since early times; analysis of selected folk tales; viewing cultural videos; writing short critiques. Prerequisites: Ar 303 and Ar 304 or consent of instructor.		
Fall 2010	N	Ar	421 / 521	Extemporized-sung Poetry and Folk Songs of Arabs	4	Reading, translating, and analyzing selected texts of extemporized-sung folk poetry (zajal) covering major genres and lyrics of folk songs composed in the vernacular Arabic; viewing videos of social occasions during which the above genres are performed; writing critical analysis of poems. Prerequisites: Ar 304 and Ar 412/512 or consent of instructor.		
Fall 2010	N	Ar	423 / 523	Modern Arabic Poetry	4	Reading, translating, and analyzing selected modern Arabic poems from prominent Arab poets covering a wide range of issue and genres; writing critical analysis of poems. Prerequisites: Ar 412/512 or consent of instructor.		
Fall 2010	N	Ar	424 / 524	Classical Arabic Poetry	4	Reading, translating, and analyzing selected texts of classical Arabic poems from prominent Arab poets of early Arabia and al-Andalus covering a wide range of major issues; writing critical analysis of poems. Prerequisites: Ar 412/512 or consent of instructor.		
Fall 2010	N	Ar	490 / 590	Advanced Arabic Syntax	4	History of the major schools of Arabic grammar and syntax of al- Kufah and al-Basrah; contribution of prominent grammarians: Abu al-Aswad al-Du'ali, al-Khalil Ibn Ahmad, and Sibawayh; major rules of Arabic syntax; the use of the connectors in Modern Standard Arabic. Prerequisites: Ar 412/512 or consent of instructor.		
Fall 2010	M	Arch	101	Introduction to Environmental Design	4	Concepts and theories of the fields of environmental and sustainable design. Includes a study of perceptual, technical, and philosophical concepts of natural and built resources through lectures, design projects, and individual projects. Open to non-majors.	Change description.	
Fall 2010	M	Arch	225	Digital Graphics	4	A beginning computer graphics course that has at its core the idea to probe, to experiment, and to investigate the computer's 3D modeling capability as a tool for rigorous design investigations. Prerequisite: Arch 121.	Change prerequisites.	
Fall 2010	M	Arch	511	Pro-thesis Seminar	4	A research and discussion based course to identify, define and articulate specific cultural issues and concerns that will become the inspiration for individual design thesis proposals. Students will generate the conceptual parameters and theoretical agenda of their proposed thesis, explore precedents and develop the program for a significant urban intervention. Prerequisites: Arch 582.	Change prerequisites.	
Fall 2010	M	Arch	561	Detail Design	4	A companion course to the Design Thesis, developing the technological implications of the thesis proposition. Addresses the detailed application of technological know-how in terms of materials, envelope, environmental control, tectonics and structural logic, with respect to a predetermined portion of the architectural project. Prerequisites: Arch 511.	Change prerequisites.	
Fall 2010	M	Arch	280, 281	Design Fundamentals Studio 1,2	6,6	Foundational design studio sequence initiating awareness of the creative language of architecture through practical assignments in drawing, modeling, and artful making. The communication of perceptions and imaginative propositions through the use of diverse media is encouraged. Includes individual criticism, lectures, and seminar discussions. Must be taken in sequence. Prerequisite: Arch 100, 101, 121.	Change prerequisites.	
Fall 2010	M	Art	112	Idea & Form	4		Change course number to Art 182.	
Fall 2010	M	Art	182	Idea & Form	4	Introduces an interdisciplinary approach to understanding images and image systems, their history, and their intersection with the larger culture. With an emphasis on critical thinking and analysis, the course investigates the way social and cultural dynamics shape meaning and perception in art and design. Examples from art history, contemporary practice, popular culture and print/broadcast culture are examined through illustrated lectures, discussion, readings, writing assignments and studio projects. Prerequisite Art 115, 117 and 119 required. Open to non-majors with instructors consent or departmental approval.	Change course number from Art 112, change prerequisites.	

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Fall 2010	M	Art	203	Making and Meaning	4	Explores the relationship of material, method and process to the construction of meaning in art practice. Students experiment with various research methods as a way to generate, inspire and inform projects that reflect current topics of interest in contemporary art and culture. Course focus depends on instructor; examples include personal narratives, time, the constructed body, self and ritual, history and memory, public space, concepts of beauty. Prerequisites: Art 182. Maximum 4 credits. Open to non-majors with instructor's consent or departmental approval.	Change prerequisites.	
Fall 2010	M	Art	230	Drawing Concepts I	4	Develops drawing and compositional strategies, languages and methods that build on skills learned in foundation courses and embraces a transition from formal observational methods to abstract expressive modes of drawing. Students explore historical and contemporary strategies of visual analysis, surface and space as tools for creative exploration and employ analytical and verbal skills. Prerequisites: Art 115 & Art 131. Open to non-majors with instructor's consent or departmental approval.	Change prerequisites.	
Fall 2010	M	Art	294	Water Media	4	The techniques and uses of watercolor, gouache, and other water-based mediums with attention to unique characteristics as painting mediums. Collage and mixed media may be included with water-soluble pencils and crayons. Lectures on historic uses of these media and discussions of the aesthetic possibilities for layering and transparencies. Open to non-majors with instructor's consent. Prerequisites: (required for art and art history majors; recommended for non-majors) Art 115 and Art 131. Open to non-majors with instructor's consent or departmental approval.	Change prerequisites.	
Fall 2010	M	Art	295	Sculpture - the Figure	4	A studio art course that studies sculptural forms and volumes through observation of the human body. The focus of this course will be a study of the human figure in form and gesture and an exploration of the methods and materials appropriate to that study. Observation and perception, proportion, analysis of the human skeleton and musculature, and figurative abstraction will be addressed. Prerequisites: (required for art and art history majors; recommended for non-majors), Art 117. Maximum 4 credits. Open to non-majors with instructor's consent or departmental approval.	Change prerequisites.	
Fall 2010	M	Art	297	Book Arts	4	This mixed media class will explore the book as an art form. The relationship of images and/or words will be explored in relationship to narrative and sequential structures. Traditional and experimental methods of binding will be taught. Lectures on the history of the artist's book and issues in imagery and/or typography will be presented. This class will emphasize an experimental and conceptual approach that integrates content and form. Open to non-majors with instructor's consent. Prerequisites (required for art and art history majors only) Art 115, Art 131 and Art 230. Open to non-majors with instructor's consent or departmental approval. Maximum 8 credits.	Change prerequisites.	
Fall 2010	M	Art	330	Critical Theories in Art I	4	After a brief look at art of the 1960s and 1970s, this class will explore major theoretical and philosophical developments in the art world over the last quarter-century. Various themes and forms of art and individual artists will be examined as manifestations of specific theories and philosophies that have emerged during the past 25 years. Particular emphasis will be on art of the post-9/11 era. Material will be covered through readings, slide lectures and films as well as frequent visits to the Portland Art Museum; we will also take advantage of gallery shows, lectures and other relevant local events. Assignments will include critical response and research papers, group presentations. Prerequisites: (required for art majors); Art 182, 203 and ARH 206. Maximum 4 credits. Open to non-majors with instructor's consent or departmental approval.	Change prerequisites.	
Fall 2010	M	Art	350	Life Drawing II	4	This is the second class in the Life Drawing sequence. The course continues development of skills in drawing the human figure in a variety of poses working with a variety of materials with an emphasis on the muscular system. Prerequisite: Art 131, Art 250 or have equivalent experience drawing from a live model. The student should be able to state the figure quickly, economically and in proportion. Open to non-majors with instructor's consent Prerequisites. (for art and art history majors only) Art 131, Art 182, Art 203 and Art 250.	Change prerequisites.	

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Fall 2010	M	Art	373	Creative Sculpture	4	A creative study of all aspects of sculpture involving various media such as clay, plaster, wood, stone, and the metals, with emphasis, as necessary, on architectural sculpturing. Open to non-majors with instructor's consent. Prerequisites (required for art and art history majors only): Art 182, Art 203, Art 291, Art 292. Maximum: 12 credits. Open to non-majors with instructor's consent.	Change prerequisites.	
Fall 2010	M	Art	391	Drawing Concepts II	4	The second of a two-term sequence (ART 230): to be taken in the third year for students majoring in either painting or printmaking. This course engages the theories and practices involved in the many processes, methods, and techniques of drawing. Analytical and critical thought is emphasized and part of the final end of the term review. Emphasis will be on postmodern concepts and theories as applied to studio practice in art since 1960. Readings, discussions and research are expected to inform studio practice. Required for all transfer students in Painting/Drawing and Printmaking. Strongly recommend Art History 206. Prerequisites (required for art and art history majors only): Art 182, Art 203 and Art 230. Open to non-majors with instructor's consent.	Change prerequisites.	
Fall 2010	M	Art	270, 271	Introduction to Printmaking	4,4	A laboratory course in print art taught in sequence, which focuses on a specific technique each term. From a drawing based foundation the thought process involved in making prints is strongly explored, translating drawn images into a graphic language. Concepts and content are investigated appropriate to the technique taught. Individual and group discussions as well as portfolio reviews are an intricate part of the review process. Art 270 explores monotype, or dry point. Art 271 explores etching or relief. Prerequisites: (required for art and art history majors; recommended for non-majors) Art 115, Art 117 and Art 131. Open to non-majors with instructor's consent or departmental approval.	Change prerequisites.	
Fall 2010	M	Art	281, 282	Introduction to Painting I & II	4,4	A two-term sequenced course that introduces the principles and practice of painting. Art 281: explores basic theory and use of color and composition. Assignments involve both conceptual approaches and direct observation using still life, figures and landscape. Art 282: continues a more conceptual approach to principles and practices begun in Art 281, while further exploring various painting styles, techniques and media used throughout the 20th century. Courses must be taken in sequence. Prerequisites: (required for art and art history majors; recommended for non-majors): Art 115, Art 117 and Art 131. Open to non-majors with instructor's consent or departmental approval.	Change prerequisites.	
Fall 2010	M	Art	291, 292, 293	Sculpture I, II, III	4,4,4	Art 291 - Mass: students will be introduced to working in three dimensions through observation and those materials that lend themselves to forms that produce actual mass and volume. Some work from a life model. Plaster mold making will be included. Art 292 - Plane: an approach to three dimensions that involves constructive techniques. Mass and volume will be achieved through planer construction. Art 293 - Space: focus on how an object exists in space and how that space makes an object. Both planer and mass forms will be considered. Prerequisites: (required for art and art history majors; recommended for non-majors): Art 117. Open to non-majors with instructor's consent or departmental approval.	Change prerequisites.	
Fall 2010	M	Art	392, 393	Intermediate Painting	4,4	Study of various concerns in the expansion of technical and conceptual approaches dealing with form and content in both historical and contemporary practices. Students investigate a variety of ways of seeing that expands their approach to the subject and prepares them to begin development of an independent body of work in advanced painting. Students work both individually and in a group setting. Art 392: emphasis is placed on surface, materials, and other technical concerns, although issues dealing with the relationships of form and content are also discussed. Art 393: utilizing traditional and non-traditional technical processes while dealing with specific themes, students develop a personal vocabulary within a contemporary discourse. Prerequisites: (for art and art history majors only) Art 182, Art 203, Art 230 and Art 281, 282. Open to non-majors who have prerequisites and consent of the instructor.	Change prerequisites.	

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Fall 2010	M	BA	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 credit hours from 3 to 4. Change description.	
Fall 2010	M	BA	506	Business Project	2-6		Change course number to BA 525, change title and description.	
Fall 2010	M	BA	508	Leadership Development and Assessment	2		Change course number to BA 521, change description.	
Fall 2010	M	BA	509	Leadership Immersion	1		Change course number to BA 524, change description.	
Fall 2010	M	BA	521	Leadership Development and Assessment	2	This course is the first stage for the development of leadership competencies in the MBA+ program. Each student will be expected to write a personal development and learning plan based upon the results of an initial assessment of the student's leadership strengths and weaknesses. During the term the students will be involved in various activities to assess and develop their interpersonal, communication, problem solving, and systems thinking competencies. Pass/no pass course, concurrent enrollment in Mktg 511 is required.	Change course number from BA 508, change description.	Replaces BA 508.
Fall 2010	N	BA	522	Communications for Leaders	1	This course focuses on building effective communication skills, including writing, speaking and listening. Students will learn how to create and engage in clear and well-structured communications – both oral and written. Students will be introduced to specific techniques that students can use to increase their effectiveness as communicators, engage their audience and respond to 'expected' and 'unexpected' questions that arise in a way that is authentic, collaborative and influential. Prerequisites: BA 521.		
Fall 2010	M	BA	523	Executive Perspectives in Leadership	1	This course provides students that opportunity to interact and learn directly from executives at for-profit, not-for-profit and government organizations. Students will listen to and discuss the concepts and practices of leadership as it relates to the professional experiences of the executives.	Change course number from BA 531, change title and description.	
Fall 2010	M	BA	524	Leadership Immersion	1	A two-day offsite business simulation experience designed to assess students' technical and leadership skills. This course can only be taken as a pass/no pass grading option. Prerequisite: Fin 561.	Change course number from BA 509, change description.	Replaces BA 509.
Fall 2010	M	BA	525	Capstone Consulting Project	2-6	Under the direction of a faculty member, students work in teams over two terms to apply MBA knowledge, skills and leadership competencies to an actual organizational problem in a consulting framework. Student teams may either work for an existing organization or, with prior approval from the Project Advisor or Associate Dean for Graduate Programs, work on a entrepreneurial venture of their own. This course requires two consecutive terms to complete, with the bulk of the effort occurring in the first term. Students may register for six credits during a single term or for four credits during the first term and two credits the following term. Students meet with faculty several times over the two terms which may include: a) an informational meeting prior to the start of the term, as specified in the published class schedule; b) at the beginning of the term; c) at additional specific times over the two terms, as arranged between the faculty member and each team. An assigned faculty member will work with each student team to facilitate and monitor progress on the project and to discuss a variety of conceptual, implementation and organizational issues. Prerequisite: BA 511, Fin 512; and BA 524 and BA 512 (may be concurrent); and completion of at least 37 hours of the MBA core sequence.	Change course number from BA 506, change title and description.	Replaces BA 506.
Fall 2010	M	BA	531	Executive Briefings	1		Change course number to BA 523, change title and description.	
Fall 2010	D	BA	561	Law for Managers	2			

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Fall 2010	M	Bi	235	Microbiology Laboratory	2	The laboratory is designed for science majors and others who need practical experience in culturing and observation of microorganisms. Topics will include culture techniques, use of the microscope for observation of microorganisms, and procedures for study of microorganisms in the laboratory and field. Two 2-hour laboratory periods.	Change title and prerequisites.	
Fall 2010	M	Bi	334	Molecular Biology	4	The principles, concepts and methods of molecular biology focusing on structure, biochemistry, biosynthesis, and regulation of cellular macromolecules – DNA, RNA, and proteins. Topics covered include the nature, regulation and expression of genes, molecular aspects and regulation of translation, DNA replication and repair, mutagenesis and an introduction to molecular techniques.	Change course number from Bi 338, change title and description.	
Fall 2010	M	Bi	338	Introduction to Molecular Biology	4		Change course number to Bi 334.	
Fall 2010	M	Bi	480 / 580	Microbiology	4	Fundamental concepts and techniques of microbiology. The general principles of microbial cell structure and function, physiology and biochemistry, growth, survival, classification, and diversity are emphasized. Expected preparation: Bi 336 and Bi 338.	Remove co-requisites.	
Fall 2010	M	Bi	488 / 588	Microbiological Techniques	2	Techniques in microbiology, including staining and microscopy, isolation and maintenance of bacteria, counting techniques, and methods for a wide range of physiological, morphological and molecular tests. Prerequisite Bi 235, or Bi 337, or Bi 431/531, or consent of instructor.	Change title and prerequisites.	
Fall 2010	N	Bst	326	Cuba, Dominican Republic, Puerto Rico	4	History, culture, politics and contemporary societies of the people of the Spanish-speaking Caribbean – Cuba, the Dominican Republic and Puerto Rico.		
Fall 2010	N	CE	115	Civil Engineering Drawing and Spatial Analysis	3	The graphic language applied to civil engineering. Projection systems. Multiview and pictorial representation. Introduction to computer assisted drawing software, geographic information systems and spatial analysis. Lecture and laboratory.		
Fall 2010	D	CE	333	Design of Steel Structures	4			
Fall 2010	N	CE	361	Fluid Mechanics	4	Properties of fluid; fluid statics; fluid dynamics; control volume and Reynolds transport theorem; conservation of mass, momentum and energy; differential analysis; rotational and irrotational flows, non-viscous and viscous flows, Navier Stokes equations. 3 units Lecture and 1 unit laboratory. Prerequisites: admission to CE and EAS 215. Co-requisite: Mth 256.		
Fall 2010	M	CE	362	Engineering Hydraulics	4	Application of the principles of fluid mechanics to flow in closed conduits, turbomachinery and open channels. Topics include flow resistance, laminar and turbulent flow and introduction to boundary layer theory; flow in pressurized closed conduits including pipes in series and parallel; turbomachinery including pump systems and turbines; uniform and non-uniform flow in open channels, gradually and rapid varied flow; dimensional analysis and similitude. 3 units lecture and 1 unit laboratory. Prerequisites: CE 361.	Change title and description.	
Fall 2010	M	CE	371	Environmental Engineering	4	Effect of air, land, and water pollutants on environment. Transport and fate of pollutants in environment. Flow and mass balances of reactors. Reaction kinetics. Mathematical modeling of water quality in rivers, lakes, and estuaries. Water and wastewater treatment processes. Air quality management. Solid waste management. Prerequisites: CE 361.	Change prerequisites.	
Fall 2010	M	CE	484	Civil Engineering Project Management and Design I	3	Engineering design process including owner design, professional-constructor relationships, procurement procedures, project evolution; contracts, dispute resolution, bonds, warranties; construction documents, including specifications; cost estimating, planning, and scheduling; construction administration; group process, diversity, and leadership. Two lectures, one 3-hour design project laboratory period. Prerequisite: senior standing in Civil or Environmental Engineering.	Change prerequisites.	
Fall 2010	N	CE	419 / 519	Bridge Engineering	4	Introduction to analysis and design of short to medium span highway bridges, including load descriptions, analysis and design procedures outlined in AASHTO Load Resistance Factor Design specifications. Prerequisites: CE 325.		
Fall 2010	M	CE	431 / 531	Stability of Structures	4	Study of elastic and inelastic flexural buckling of bars and frames; use of energy methods and successive approximations; bracing of columns and frames; torsional, lateral-torsional, and local buckling. Prerequisites: CE 432/532, Mth 261 or equivalent.	Change prerequisites.	
Fall 2010	M	CE	436 / 536	Masonry Design	3		Change credit hours from 4 to 3.	

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Fall 2010	N	CE	462 / 562	Traffic Engineering Applications and Signal Timing	4	Theory and practice of traffic signal timing. Focuses on terms associated with signal timing, relating practice in the field with analysis completed using the Highway Capacity Manual and other traffic engineering software. A significant portion of the class is focused on applications, specifically focused on multimodal applications. Prerequisites: CE 351.		
Fall 2010	N	CE	468 / 568	Soil and Groundwater Restoration	4	Methods for restoring contaminated soil and groundwater; Factors and processes influencing the efficacy of remediation systems. Emphasis on the scientific principles upon which soil and groundwater remediation is based. Containment, pump and treat, cosolvents and surfactants, soil venting, in-situ physical and chemical treatment. Prerequisites: senior/grad standing.		
Fall 2010	M	CE	469 / 569	Subsurface Hydrology	4	Basic principles of aqueous flow in the subsurface, emphasizing the importance of groundwater as a resource. Hydrologic cycle, history of groundwater usage, aquifer classification and properties, Darcy's experiments and Law, hydraulic head and potential, porosity and permeability, transmissivity and storativity, heterogeneity and anisotropy, saturated vs. unsaturated subsurface flow, and hydraulics of pumping wells (drawdown, flow in confined and unconfined aquifers, steady-state vs. transient flow, slug tests, and aquifer-test design). Prerequisite: senior/graduate standing.	Change title and description.	
Fall 2010	N	CE	481 / 581	The Columbia River as a System	2	Explores the climate and hydrologic processes that shape the Columbia River basin ecosystem, and relates these processes to the basin's management context. The geographic scope includes the watershed, the main stem and its reservoirs, major tributaries, the tidal river below Bonneville Dam, the estuary, the Columbia plume, and coastal waters that interact with the plume. Lectures and outside speakers will present or discuss vital issues in contemporary Columbia Basin management, along with relevant background information. Expected preparation: CE 361 and CE 371. Prerequisites: junior standing.		
Fall 2010	N	CE	482 / 582	Introduction to Sediment Transport	4	Fundamentals of sediment transport in natural surface waters. Analysis of the governing equations of mass, momentum, and sediment conservation. Covers bedload and suspended material transport in riverine and estuarine waters, focusing on non-cohesive materials. Cohesive material transport will be briefly introduced. Prerequisites: CE 361, CE 371.		
Fall 2010	N	CE	483 / 583	Estuarine Circulation	4	Introduction to the physical processes that govern estuarine and buoyant plume circulation. These include tides, density-driven circulation, internal tidal asymmetry and frontal propagation. Expected preparation: CE 576. Prerequisites: CE 361 and CE 371.		
Fall 2010	M	CE	522 / 622	Plastic Analysis of Structures	4	Techniques in the analysis of structures beyond the elastic limit. Methods of limit analysis and design. Prerequisites: CE 432/532.	Change prerequisites.	
Fall 2010	N	CE	534 / 634	Advanced Reinforced Concrete Design	3	Design of spandrel beams, slabs on beams, shear walls, deep beams, corbels, and other components of reinforced concrete structures with reference to current codes. Prerequisite: CE 435.		
Fall 2010	D	CE	569 / 669	Groundwater Hydrology	4			
Fall 2010	D	CE	571 / 671	Stochastic Subsurface Hydrology	4			
Fall 2010	N	CE	571 / 671	Subsurface Contaminant Transport	4	Principles associated with the transport and fate of contaminants in subsurface systems. Complex, heterogeneous factors and processes (both physical and geochemical) influencing contaminant transport. Emphasis on the impact of these processes on contaminant fate across the multitude of scales in the subsurface. Case studies linking theory and measured/observed transport behavior. Prerequisites: graduate standing.		
Fall 2010	M	CE	572 / 672	Environmental Fluid Mechanical Transport	4	Introduction to the basic physical processes which transport pollutants in natural waters (rivers, lakes, reservoirs, estuaries); mathematical formulations of heat and mass advective and diffusive transport; descriptions of molecular diffusion, turbulent diffusion, and dispersion. Use of predictive mathematical models as a basis for water and air quality management. Prerequisites: CE 361 and CE 371.	Change title, description and prerequisites.	

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Fall 2010	M	CE	573 / 673	Numerical Methods in Environmental and Water Resources Engineering	4	Introduction to the mathematical solution of partial differential equations by finite difference and finite element techniques. Development of solution approaches to water quality and hydraulic problems in surface and groundwater systems. Analysis of model sensitivities, calibration and verification. Prerequisite: senior or graduate standing in civil or environmental engineering.	Change prerequisites.
Fall 2010	M	CE	576 / 676	Environmental Fluid Mechanics	4	Introduction to the fundamentals of the fluid dynamics of natural surface waters by analysis of the governing equations of mass, momentum, and heat conservation. Applications include turbulence modeling, finite depth water motions, stratified flow phenomena, and seiche phenomena. Prerequisites: CE 361, CE 362 and CE 371.	Change title and prerequisites.
Fall 2010	M	CE	578 / 678	Water Quality Modeling	4	Introduction to descriptive modeling approaches for analyzing water quality changes in lakes, reservoirs, rivers, and estuaries. Applications include modeling dissolved oxygen, temperature, nutrients, and algal dynamics. Prerequisites: CE 361, CE 371.	Change prerequisites.
Fall 2010	N	CFS	488	Social Justice in Child and Family Studies	4	Examines and applies principles of anti-oppressive practice (AOP) in the helping professions served by students with degrees in Child and Family Studies. The course will present theoretical foundations for AOP grounded in discussions of power and privilege, voice, marginalization and oppression, and the role of the helping professional in working to transform oppressive social structures, values, and behaviors. Prerequisites: CFS 480 and junior standing.	
Fall 2010	N	CFS	497	Practicum I	5	Child and Family Studies practicum conducted in approved professional settings with consideration for students' professional goals. Prerequisites: junior standing, admittance to Child and Family Studies Program, grade of IP in CFS 494.	
Fall 2010	M	CFS	498	Practicum II	5	Child and Family Studies Practicum conducted in approved professional settings selected with consideration of students' professional goals. Accompanying seminar. Prerequisite: admittance into the CFS program, five credits of CFS 497 (Practicum I) senior status, and CFS 480 (completion or concurrent registration).	Change title, prerequisites and credit hours from variable to 5.
Fall 2010	N	CFS	450 / 550	Youth and Youth Work	4	Emphasizes multiple lenses through which young people are seen and treated. Explores youth work principles, multiple youth work traditions, experiential/outdoor education, youth development, and other dimensions of youth work. Includes community-based component for application of theory. Intended for students planning careers in education, policy, and direct service with youth. Required course for Child & Family Studies Youth Worker specialization. Graduate students will participate in one hour of additional class time per week, to be scheduled with the instructor at the first class session. Prerequisites: junior standing.	
Fall 2010	N	Ch	435 / 535	Polymer Chemistry	4	Fundamentals of polymers. Topics include polymer structures, molecular weights and determination, methods of polymerization including kinetics and statistics, testing and spectroscopy characterization of polymers, polymer composites and fillers, polymer reactions. Prerequisites: Ch 336.	
Fall 2010	M	Ch	443 / 543	Numerical Data Analysis and Modeling in Chemistry	2	The study of statistical analysis of experimental data and modeling of chemical systems using modern computational resources. Prerequisites: Ch 320/321, and Ph 223 or Ph 213. Concurrent enrollment in Ch 440/540 recommended.	Change title, description and credit hours.
Fall 2010	m	ChLa	450	Latinos in Education	4		Change title.
Fall 2010	N	Coun	544	Consultation: Theory and Practice	2	Focus on the theory and practice of consultation and collaboration with various populations (e.g., parents, families, clinical practitioners) and across a variety of settings, particularly mental health agencies and schools. Prerequisites: graduate standing.	
Fall 2010	N	Coun	546	Grief and Loss	2	Focus on developing knowledge and skills related to counseling individuals and families having experienced loss through death. Students will receive information about theories of grief, explore the neurobiology of the brain in relation to trauma, recognize factors that complicate grief and develop counseling strategies for working with these issues. Prerequisites: graduate standing.	
Fall 2010	N	Coun	547	Legal & Ethical Issues in School Counseling	1	Focuses on the legal and ethical considerations specifically related to the practice of school counseling. Class time will include lecture/discussions, experiential exercises, and completion of case vignettes related to common legal and ethical issues. Prerequisites: graduate standing.	

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Fall 2010	M	Coun	430 / 530	Introduction to Psychiatric Diagnoses	3		Change title.
Fall 2010	N	CR	417	Introduction to Nonviolence	4	Analysis of history of nonviolent action, of campaigns for social change, of national liberation and of protection of populations and their resources through witness, interposition and other nonviolent strategies and tactics. Surveys the roots of the practitioners from religious to secular, personal to political and studies examples of success and failure.	
Fall 2010	M	CS	105	Computing Fundamentals I	4	Intended as an overview of computers and computer technology for non-CS majors, this course is often described as a computer literacy course. The primary focus is on the personal computer and personal productivity software. Hardware components of computers such as processors, memory, and input/output devices are discussed and compared. Software is the primary focus of the course. The main topics are system software (Windows, OS X, etc) and applications (such as browsers, word processors, spreadsheets, presentation graphics and database managers). The course concludes with discussions concerning legal and ethical issues surrounding computer technology, management information systems, and systems analysis. Expected preparation: high school algebra.	Change description.
Fall 2010	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. Students who complete CS 106 with a grade of A or B will usually be able to progress to CS 162 successfully. Expected preparation: high school algebra, knowledge of Windows and the ability to use Windows Explorer.	Change description.
Fall 2010	M	CS	161	Introduction to Programming and Problem-solving	4		Change title.
Fall 2010	M	CS	162	Introduction to Computer Science	4		Change title.
Fall 2010	M	CS	250	Discrete Structures I	4	Introduces discrete structures and techniques for computing. Sets. Graphs and trees. Functions: properties, recursive definitions, solving recurrences. Relations: properties, equivalence, partial order. Proof techniques, inductive proof. Counting techniques and discrete probability. Expected preparation: Mth 251 recommended.	Change prerequisites.
Fall 2010	M	CS	333	Introduction to Operating Systems	4	Introduction to the principles of operating systems and concurrent programming. Operating system services, file systems, resource management, synchronization. The concept of a process; process cooperation and interference. Introduction to networks, and protection and security. Examples drawn from one or more modern operating systems. Programming projects, including concurrent programming. Prerequisites: CS 201, 202.	Change prerequisites.
Fall 2010	M	CS	345	Cyberculture: The Internet and Popular Culture	4	Study of the effect of computers and the internet on popular culture. Graduates of the course will become more intelligent and successful users of the Internet, understand how the internet works, be aware of the wide variety of applications that exist on the internet, and will understand the primary principles that underlie the success the Internet has had in changing popular culture. Typical topics will include history and technologies of the web, social networks, the long tail in business and culture, the power of groups, user generated content, complex systems, virtual worlds and the power of search. Prerequisites: Sophomore Inquiry: Popular Culture (Unst 254).	Change description.
Fall 2010	M	CS	346	Exploring Complexity in Science and Technology	4	This course introduces Complex Systems, an interdisciplinary field that studies how collections of simple entities organize themselves to produce complex behavior, use information, and adapt and learn. The focus will be on common principles underlying complexity in science and technology, and will include ideas from physics, biology, the social sciences, and computer science. This course is the same as SySc 346; course may be taken only once for credit.	Change description.

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Fall 2010	M	CS	386	Introduction to Databases	4	Introduction to fundamental concepts of database management using primarily the relational model. Schema design and refinement. Query languages. Database application environments. Physical data organization. Overview of query optimization and processing, physical design, recovery and concurrency control. Query processing for search engines. The course will cover topics such as security, data warehousing and analytic databases. Prerequisites: CS 161, 250. Expected preparation: CS 251.	Change description.	
Fall 2010	M	CS	445 / 545	Machine Learning	4/3	Provides a broad introduction to techniques for building computer systems that learn from experience; conceptual grounding and practical experience with several learning systems; and grounding for advanced study in statistical learning methods, and for work with adaptive technologies used in speech and image processing, robotic planning and control, diagnostic systems, complex system modeling, and iterative optimization. Students gain practical experience implementing and evaluating systems applied to pattern recognition, prediction, and optimization problems. Prerequisites: Mth 253, Stat 451; CS 202.	Change prerequisites.	
Fall 2010	M	CS	586 / 686	Intro to Database Management	3	Introduction to fundamental concepts of database management using primarily the relational model. Schema design and refinement. Query languages. Database application environments. Physical data organization. Overview of query optimization and processing, physical design, recovery and concurrency control. Query processing for search engines. The course will cover topics such as security, data warehousing and analytic databases. Students will present a report on an advanced topic. Prerequisites: CS 161, 250. Recommended Prerequisite CS251.	Change description.	
Fall 2010	D	EAS	213	Properties of Materials	4			
Fall 2010	M	Ec	311	Microeconomic Theory	4	Theories of consumer behaviour and demand, production and cost, the firm and market organization, strategic behavior, and functional income distribution. Prerequisites: Ec 201.	Change course number from Ec 474/574, change prerequisites.	
Fall 2010	M	Ec	570	Econometrics	4	Covers the theory and application of statistical regression, hypothesis testing, and simulation of econometric models. Emphases are placed on model construction and efficient use of economic data. Problems of multicollinearity, heteroscedasticity, autocorrelation, and distributed lags are discussed. Some familiarity with calculus, matrix algebra, and computer applications are assumed. Prerequisites: EC 469 or consent of instructor.	Change prerequisites.	
Fall 2010	M	Ec	571	Advanced Econometrics	4	Advanced Econometrics topics including systems of linear equations, panel data, nonlinear models, nonparametric estimation and prediction, and applications in consumption and production models. Data resources available to the practicing economist will be covered. Prerequisites: Ec 570 or consent of instructor.	Change prerequisites.	
Fall 2010	D	Ec	574	Microeconomic Theory	4			
Fall 2010	M	Ec	575	Advanced Macroeconomics	4		Change course number to Ec 582.	
Fall 2010	M	Ec	576	Advanced Microeconomics	4		Change course number to Ec 581.	
Fall 2010	M	Ec	581	Advanced Microeconomics	4	Theory of consumer behavior and of the firm. Market and multimarket equilibrium and stability. Varieties of imperfect competition. Prerequisites: Ec 480/580 or consent of instructor.	Change course number from Ec 576, change prerequisites.	
Fall 2010	M	Ec	582	Advanced Macroeconomics	4	Theories of national income, employment and price levels with special emphasis on recent developments in analytical techniques and empirical findings. Prerequisites: Ec 480/580 or consent of instructor, and Ec 581 or consent of instructor.	Change course number from Ec 575, change prerequisites.	
Fall 2010	M	Ec	590	Applications of Advanced Macroeconomic Theory	4		Change course number to Ec 592.	

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Fall 2010	M	Ec	591	Applications of Advanced Microeconomic Theory	4	Applies theories of consumer and producer behavior to a variety of real world problems. Different sub-disciplines of microeconomics will be covered, which may include two or three of the following: information economics, environmental economics, economics of regulation, industrial organization, law and economics, natural resource economics, labor economics, regional economics, urban economics, and the economics of contracting. For each sub-discipline covered, the most important economic model will be discussed and a review of major research studies and techniques will be undertaken. Prerequisites: Ec 581 or consent of instructor.	Change prerequisites.	
Fall 2010	M	Ec	592	Applications of Advanced Macroeconomic Theory	4	Coverage includes current topics of interest in macroeconomics. The focus is on the applications of neoclassical and Keynesian theories of macroeconomic theory to a variety of real world problems. The various sub-disciplines of macroeconomics that may be covered include: Financial Economics, Monetary Economics, Economic Growth Models, Labor Economics, Public Finance, International Economics, and Radical Macroeconomic Thought. Prerequisites: Ec 582 or consent of instructor.	Change course number from Ec 590, change prerequisites.	
Fall 2010	M	Ec	420 / 520	Money and Banking	4	Functional and empirical definitions of money and interest rates. Characteristics and role of bank and non-bank financial institutions in determining the level of money and interest rates. History of the Federal Reserve System. Instruments of monetary control by the Federal Reserve. Alternative models of monetary influence on the economy. Prerequisites: Ec 201, 202; Ec 312 or consent of instructor.	Change prerequisites.	
Fall 2010	M	Ec	425 / 525	Economics of Industrial Organizations	4	Study based upon the application of microeconomic theory to the analysis of firms, markets, and industries. Search for economic explanations for the structure of markets and for the behavior of the firms which trade in them. Seeks also to explain the internal organization of firms and to assess the efficiency of the market in determining organization. Prerequisites: Ec 201; Ec 311 or consent of instructor.	Change prerequisites.	
Fall 2010	M	Ec	432 / 532	Advanced Environmental Economics	4	Examination of the economics of environmental degradation, externalities and pollution control. Emphasis is on the theoretical aspects of market failure, policies/regulations to promote efficient outcomes and policy applications. Prerequisites: Ec 311 and Ec 430/530 or permission of instructor. Ec 469 or equivalent recommended.	Change title, description and prerequisites.	
Fall 2010	M	Ec	433 / 533	Advanced Natural Resource Economics	4	An examination of the economic concepts and theories for analyzing natural resource production, extraction and use. Focus on natural resources, such as land, minerals, forests, fisheries and wildlife and the barriers to achieving sustainability. Regional, national and international case studies used to illustrate key policy issues. Prerequisites: Ec 311 and Ec 430/530 or permission of instructor. Ec 469 or equivalent recommended.	Change title, description, prerequisites.	
Fall 2010	M	Ec	440 / 540	International Trade Theory and Policy	4	Theories of international trade. Analysis of the normative aspects of trade including the gains from trade and the effect of trade on economic welfare. Examination of international trade policy and issues of economic integration, economic growth, and current trade problems. Prerequisite: Ec 201; Ec 311 or consent of instructor.	Change prerequisites.	
Fall 2010	M	Ec	441 / 541	International Monetary Theory and Policy	4	Balance of payments theory including balance of payments accounting and foreign exchange market; theoretical models of fixed and flexible exchange rate systems using both Neoclassical and Keynesian approaches. Historical evolution of the international monetary system. Current international monetary policies and problems. Prerequisite: Ec 201, Ec 202; Ec 312 or consent of instructor.	Change prerequisites.	
Fall 2010	N	Ec	448 / 548	East Asian Economic Development	4	Key topics in the development of East Asian economies, especially, Japan, China, South Korea, and several Southeast Asian countries. Economic theory will be applied to investigate the validity of the "Asian economic growth model," while examining political, social and historical factors of the area and comparing the experience of these economies with that of other developing countries. Prerequisites: Ec 201, 202 or consent of instructor.		

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Fall 2010	M	Ec	450 / 550	Economics of Development	4	Examines problems of post-colonial legacy :underdevelopment and persistent poverty. Rapid population growth, uneven development, capital flight, dual economy, brain drain. Industrialization strategies, foreign trade, education and human capital, population slowdown, microcredit institutions, role of women. Prerequisites: Ec 201, 202.	Change title and prerequisites.	
Fall 2010	M	Ec	460 / 560	History of Economic Thought	4	Selections from the economic writings of various thinkers from antiquity through the Reformation. A survey of the work of the most important economic theorists of the 18th, 19th, and 20th centuries including Adam Smith, Ricardo, Marx, Marshall, Veblen, and Keynes. Readings include original writings and interpretations by later economists. Scholars will be studied in terms of their historical context and the contemporary relevance of the theories and policy recommendations. Prerequisites: Ec 201, 202.	Change prerequisites.	
Fall 2010	N	Ec	461 / 561	The Economics of Empire and War	4	Historical and contemporary analyses of the economic motivations and consequences of imperialism and war, distinguishing formal and informal imperialism, with a particular focus on the recent history of the United States. Prerequisites: junior standing. Expected preparation: Ec 201 and 202.		
Fall 2010	N	Ec	466 / 566	The Political Economy of Mexican Migration	4	A substantial proportion of people born in Mexico is estimated to live in the U.S. This course is designed to provide an economic understanding of this phenomenon, by investigating economic analyses of development, poverty, inequality, wage determination and migration; with particular attention to the economic situation in the U.S. and Mexico, and the economic relations between the two nations. Prerequisites: junior standing. Expected preparation: Ec 201 and Ec 202.		
Fall 2010	M	Ec	473 / 573	Macroeconomic Theory	4		Change course number to Ec 312.	
Fall 2010	M	Ec	474 / 574	Microeconomic Theory	4		Change course number to Ec 311.	
Fall 2010	M	Ec	480 / 580	Mathematical Economics	4	Mathematics for economists. Applications of differential calculus and matrix algebra to economics. Topics include Consumer theory, production functions, and applied general equilibrium models. Prerequisites: Ec 311, 312, and 380 (or equivalently: Mth 251, Mth 252, and Mth261, in place of 380).	Change prerequisites.	
Fall 2010	M	Ec	202	Principles of Economics	4	A study of factors 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 prerequisites.	
Fall 2010	M	Ec	312	Macroeconomic Theory	4	Examine tools and models to analyze factors influencing the levels of output, employment and prices. Fundamentals of the theory of business cycles, economic growth, inflation. The role of government in dealing with these and related problems. Prerequisites: Ec 202, Ec 311, or consent of the instructor.	Change course number from Ec 473/573, change prerequisites.	
Fall 2010	D	Ec	573	Macroeconomic Theory	4			
Fall 2010	M	Ec	595	Applied Advanced Econometrics	4	Covers advanced topics related to methodological issues in econometrics, with emphases on computation, simulation, and non-linear methods in econometrics. Nonlinear econometric models including Box-Cox variable transformation, autoregressive time series analysis, and qualitative choice models. Simulation-based econometrics covers topics of Monte Carlo experiments and bootstrapping methods. Prerequisites: Ec 570, 571 or consent of instructor.	Change prerequisites.	
Fall 2010	D	ECE	201	Electrical Engineering Laboratory I	1			
Fall 2010	D	ECE	202	Electrical Engineering Laboratory II	1			
Fall 2010	D	ECE	203	Electrical Engineering Laboratory III	1			
Fall 2010	M	ECE	221	Electric Circuit Analysis	4	Introduction to the basic methods of circuit analysis including Kirchhoff's laws, resistive circuits, techniques of circuit analysis, operational amplifiers, and energy storage elements. Weekly lab. Prerequisites: ECE 102, Mth 252.	Change description, prerequisites, and credit hours from 3 to 4.	

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Fall 2010	M	ECE	222	Electric Circuit Analysis II	4	Introduction to the dynamic response of circuits and sinusoidal steady state analysis. Includes phasor analysis, linear transformers, ideal transformers, power calculations, and balanced three-phase circuits. Weekly lab. Prerequisite: ECE 221.	Change description, prerequisites, and credit hours from 3 to 4.	
Fall 2010	M	ECE	223	Electric Circuit Analysis III	4	Introduction to the Laplace Transform for circuit analysis. Design of analog filters, transfer function analysis, Bode plot analysis, and pole-zero diagrams. Weekly Lab. Prerequisite: ECE 221. Expected preparation: ECE 222.	Change description, prerequisites, and credit hours from 3 to 4.	
Fall 2010	D	ECE	301	Electrical Engineering Laboratory IV	1			
Fall 2010	D	ECE	302	Electrical Engineering Laboratory V	1			
Fall 2010	D	ECE	303	Electrical Engineering Laboratory VI	1			
Fall 2010	M	ECE	321	Electronics I	4	Introduction to solid state electronics, leading to the physical properties and characteristics of solid state electronic devices: diodes, bipolar junction transistors and field effect transistors. Analysis and design of rectifier topologies and biasing circuits. Application of a computer-aided design (CAD) tool, such as SPICE. Weekly Lab. Prerequisite: ECE 223.	Change description, prerequisites, and credit hours from 3 to 4.	
Fall 2010	M	ECE	322	Electronics II	4	Ideal and non-ideal OPAMP circuits; Analysis of electronic amplifiers using small-signal models of electronic devices; Differential and operational amplifier design techniques involving current mirrors and active loads; Frequency response of analog circuits; Computer-aided design. Weekly Lab. Prerequisite: ECE 321.	Change description, prerequisites, and credit hours from 3 to 4.	
Fall 2010	M	ECE	323	Electronics III	4	Feedback topologies. Design and analysis of sinusoidal waveform generators. Introduction to phase-locked loops. Study of digital circuits used in various logic families. Computer-aided design. Weekly Lab. Prerequisite: ECE 322.	Change description, prerequisites, and credit hours from 3 to 4.	
Fall 2010	N	ELP	542	Intro to Service-Learning: Theoretical and Pedagogical Perspectives in Postsecondary Ed	4	Fundamental principles and practices of service-learning in postsecondary education. Service-learning pedagogy, its relationship to adult development, historical foundations in educational institutions, and civic education. Resources and organizations, and issues of race, class, gender, and power in service-learning. Required participation in a service-learning project provides practice in application of theories.		
Fall 2010	N	ELP	543	Service-Learning and Community Based Learning in Postsecondary Educational Leadership and Policy: Domestic Issues	4	Service-learning in postsecondary educational institutions, their leadership, and policy. Role, organization, and policy of service-learning in different postsecondary institutions, from community colleges through graduate schools, and the varying ways in which service-learning is structured, researched, and assessed. Practical and theoretical concerns in an applied service-learning experience in the metro area. Challenges and opportunities of partnerships between academic institutions and community-based organizations. Implications of service-learning for students, faculty, partners, and the community in the context of civic engagement, social justice, and social change.		
Fall 2010	N	ELP	544	Service-Learning and Community Based Learning in Postsecondary Educational Leadership and Policy: International Issues	4	Service-learning in postsecondary educational institutions, their leadership, and policy. Role, organization, and policy of service-learning in different postsecondary institutions, from community colleges through graduate schools, and the varying ways in which service-learning is structured, researched, and assessed. Practical and theoretical concerns in an applied service-learning experience abroad. Challenges and opportunities of international service-learning. Implications of service-learning for students, faculty, partners, and the community in the context of civic engagement, social justice, and social change.		
Fall 2010	N	Eng	333	Topics in Literature and Film	4	Study of the interplay between textual and cinematic representation: how these media have treated specific historical, social, and cultural phenomena, as well as the ways literature and film have inspired and influenced each other in terms of content, form, and audience.		
Fall 2010	N	Eng	334	Topics in Film Genres and Movements	4	Study of major aesthetic, cultural, and social movements in film.		
Fall 2010	N	Eng	368	Literature and Ecology	4	Study of the role literature and language play in shaping cultural responses to the nonhuman world.		
Fall 2010	N	Eng	369	Asian-American Literature	4	Survey of significant texts and contexts of Asian-American culture.		
Fall 2010	M	Eng	500	Problems and Methods of Literary Study	4		Change course number from Eng 596.	
Fall 2010	M	Eng	596	Problems and Methods of Literary Study	4		Change course number to Eng 500.	
Fall 2010	M	Eng	415 / 515	Research Methods in Rhetoric and Composition	4	Examines current methodologies used in the field of rhetoric and composition and asks students to design and implement a research project which will add to the cumulative knowledge of the discipline. Prerequisites: junior standing.	Change title and description.	

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Fall 2010	N	Eng	416 / 516	History of Rhetoric	4	Major figures and movements in rhetoric from classical rhetoric to the present. Prerequisites: junior standing.		
Fall 2010	M	Eng	469 / 569	Advanced Topics in Asian-American Literature and Culture	4		Change title.	
Fall 2010	M	Eng	490 / 590	Advanced Topics in Rhetoric and Composition Studies	4	Examines particular figures, theories, issues, movements, and historical-cultural contexts in in both contemporary and historical studies in rhetoric and composition. May be repeated for credit with different topics. Prerequisites: 12 credits in English, philosophy, speech, and/or writing.	Change title and description.	
Fall 2010	M	ESR	100-599					All ESR (Environmental Sciences) 100-599 courses have changed subject codes to ESM (no other changes.)
Fall 2010	M	ESR	600-699					All ESR (Environmental Sciences) 600 - level courses keep the ESR subject code.
Fall 2010	N	ESM	230, 231	Fundamentals of Environmental Chemistry I, II	4,4	Basic concepts and principles of chemistry as it applies to environmental problems. This will include, the nature of matter and chemical reactions, water chemistry, water pollution, atmospheric chemistry, soil chemistry, toxicological chemistry and industrial ecology. Examples will be used that illustrate the social and economic importance of environmental chemistry.		New prefix for Environmental Science courses (was ESR).
Fall 2010	N	ESM	590	Ecosystem Services & sustainability: Developing a Toolkit	4	Ecosystem services provide a conceptual framework for addressing ecological, social and economic sustainability. Students will learn to use an interdisciplinary toolbox of methods and techniques useful for assessing various aspects of ecosystem services. Students will develop projects on ecosystem services assessments and valuation.		New prefix for Environmental Science courses (was ESR).
Fall 2010	N	ESM	591	Ecosystem Services & sustainability: Field Project	4	Interdisciplinary course and field work. Provides a conceptual framework for addressing ecological, social and economic sustainability. Examining shifts in ecosystem services following development or removal of built environmental structures. Student projects evaluate and measure environmental, economic and social impacts (positive and negative) of the shift in services. Prerequisites: ESR 590.		New prefix for Environmental Science courses (was ESR).
Fall 2010	M	ETM	590 / 690	Engineering and Technology Management Synthesis	4	This is the capstone course in the Master of Science in Engineering and Technology Management. It synthesizes the concepts and methodologies of engineering and technology management into an individual or group project. The research base for the project may come from any combination of the study areas covered in Engineering and Technology Management. Prerequisites: completion of at least seven courses in the MSETM curriculum.	Change description and prerequisites.	
Fall 2010	M	Fin	352	Investments	4	Analytical study of the principles of investment in stocks, bonds, and other security instruments. Includes background study of financial markets and institutions; analysis of the investment characteristics, valuation, and market price behavior of bonds and stocks, and the choice of appropriate portfolios of these securities. Also included is the study of information and market efficiency, term structure and the determination of market interest rates, and security valuation. Prerequisites: Fin 452: BA 303.	Change course number from Fin 452.	
Fall 2010	M	Fin	440	Real Estate Valuation II	4		Change course number to Fin 460.	
Fall 2010	N	Fin	460	Real Estate Finance II	4	Finance principles applied in the context of real estate investments. Financial strength analysis, cash flow estimation, determining the cost of capital, various discounted cash flow methods. Option valuation and real options approaches. Relative valuation approaches. Applied to the valuation of Real Estate Investment Trusts and other real estate development entities. Prerequisites for undergraduates: FIN/USP 360 and BA 303.	Change course number from Fin 440, change title, description, and prerequisites.	

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Fall 2010	M	Fin	511	The Economics and Sustainability of the Firm	6	The course introduces students to the basic ideas in contemporary economics. Concepts covered include how firms and individuals make economic decisions, how markets function to allocate resources, how market structure and corporate governance affects decision making, and how strategic interactions between firms influence pricing decisions. The course will introduce students to key concepts of macro-economics, including monetary and fiscal policies and the relationships between inflation, interest and unemployment rates. Building from the fundamentals of economic theory, the course also examines how economics is linked to ecosystems and the roles of the business and government sectors in fostering economic value creation and ecosystem stewardship.	Change course number from Fin 514, change title, description and credits.	
Fall 2010	M	Fin	512	Financial Management	4	Examines the financial concepts and problem solving skills required to evaluate whether managerial decisions add value to the firm. Students will develop an understanding of the financial implications of business decisions and a framework with which to evaluate their decisions. An integral part of this approach requires understanding how the different functional areas of a business interrelate and the supporting role that finance can provide. Topics considered include cash flow analysis, risk determination, valuation, working capital management, and financing. Ethical standards are an essential guide to sound financial decision-making and long term value creation and are integrated throughout the course. Prerequisites: Fin 511, Actg 511.	Change course number from Fin 561, change description.	
Fall 2010	M	Fin	514	Economic Environment of the Firm	4		Change course number to Fin 511, change title, description and credits.	
Fall 2010	D	Fin	540	Real Estate Valuation II	4			Drop grad section from Fin 440/540.
Fall 2010	M	Fin	552	Investments	4		Separate 552 from 452.	
Fall 2010	M	Fin	561	Financial Management	4		Change course number to Fin 512, change description.	
Fall 2010	M	Fin	452 / 552	Investments	4		Separate 452 from 552.	
Fall 2010	N	Geog	465 / 565	Tuscany: Sustainability in City and Country	4	Explores historic and contemporary connections between city and country in Tuscany within a framework of environmental, social, and economic sustainability. Topics include rural land use, sustainable agriculture and forestry, food production and food networks, agritourism, landscape stewardship, urban design, and alternative energy production. Examines international transferability of sustainability concepts. Expected preparation: junior/senior or graduate class standing; relevant experience; permission of instructor.		
Fall 2010	N	Geog	484 / 584	Cartographic Applications of GIS	4	Provides a general introduction to GIS by focusing on the mapmaking capabilities of GIS software. Topics include basic cartographic principles of visual communication and representation, how to turn geographic datasets into effective maps both for print and the web, and how to critique maps. Prerequisites: Geog 380.		
Fall 2010	M	Hst	320	East Asian Civilizations	4	Origins and development of East Asian civilizations from the earliest human cultures to around 1300. Focus on interactions between Chinese influences and indigenous traditions in Japan, Korea, and Vietnam; Confucianism, Buddhism, and other religious traditions; social organization, economies, and political institutions; cultural, artistic, and literary traditions. Expected preparation: upper-division standing.	Change description.	
Fall 2010	N	Hst	321	Early Modern East Asia, 1300-1800	4	Origins and development of East Asian civilizations from the earliest human cultures to around 1300. Focus on interactions between Chinese influences and indigenous traditions in Japan, Korea, and Vietnam; Confucianism, Buddhism, and other religious traditions; social organization, economies, and political institutions; cultural, artistic, and literary traditions. Expected preparation: upper-division standing.		
Fall 2010	M	Hst	322	Modern East Asia	4		Change course number from Hst 321.	

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Fall 2010	N	Hst	334	History of Canada	4	Survey of the social, economic, and political history of Canada from the sixteenth century to the present. Topics include colonialism, First Nations peoples, evolution of government, Canadian-U.S. relations.		
Fall 2010	M	Hst	385, 386	The Modern Middle East	4,4	A two-quarter survey of the social, cultural, economic, and political history of the Middle East from the eighteenth century to the present day. Hst 385: The Modern Middle East I. Overview of the Ottoman and Qajar Empires from the 18th century till the outbreak of World War I. Coverage of key themes such as imperialism, political reform, sectarianism, constitutionalism, and revolution. Hst 386: The Modern Middle East II. Overview of the Middle East since World War I. Discussion of colonialism and nationalism, emergence of mass society, economic development, birth of the Arab-Israeli conflict, Cold War, oil, and the rise of political Islam.	Change title, description.	
Fall 2010	M	Hst	485 / 585	Ottoman World	4	An overview of Balkan and Middle Eastern history from late-medieval to early modern times (c. 14th-18th centuries). Major themes include the rise of the Ottoman Empire, the Ottomans and the early modern world (c. 1500-1800), evolution of the Ottoman state, law and religion, economy and society, and popular culture and lifestyle. Expected preparation: upper-division standing.	Change title, description.	
Fall 2010	M	Hst	485 / 585, 486 / 586	The Ottoman World and Modern Turkey	4,4		Separate 485/585 from 486/586, change titles and descriptions.	
Fall 2010	M	Hst	486 / 586	Modern Turkey	4	A study of the formation and evolution of the Turkish Republic. Coverage runs from the late-Ottoman legacy (19th century) to an overview of the republican period (since 1923). Discussion of authoritarianism and democratization, religion and secularism, nationalism and minorities, migration and urbanization, and relations with Europe and America. Expected preparation: upper-division standing.	Change title, description.	
Fall 2010	N	Intl	332	Islamic Movements in the Contemporary Muslim World	4	An overview of Islamic political movements in the contemporary Muslim world. Examines the roots and development of Islamic movements in Muslim-populated societies in the context of Social Movement Theory and globalization. Particular attention to the rise of Islamic political movements from their position as a local and regional force to a global political movement.		
Fall 2010	N	Intl	341	Environment and Development in Latin America	4	Examines the interrelationships between environment and development in Latin America from an interdisciplinary perspective. Explores issues of sustainable development including agriculture, deforestation, trade, urbanization, ecotourism and migration.		
Fall 2010	N	Intl	342	Globalization and Conflict in Latin America	4	Examines issues of globalization and its impacts on regional conflict in contemporary Latin America. Topics include political systems, trade, poverty, inequality and human rights.		
Fall 2010	N	Intl	351	The City in Europe: Social Sciences	4	Examines the challenges of modern urban life since the eighteenth century in Europe and the various intellectual, political and social responses to industrialization and modernity that shape European identity. Organized around three broad topics: the city as a locus of power and forms of resistance; multifaceted urban culture; and globalization's impact on city life.		
Fall 2010	N	Intl	352	The City in Europe: Humanities	4	Examines the challenges of modern urban life since the eighteenth century in Europe through the lens of place and character in major European novels. Authors identified with specific cities (e.g., Orwell and Barcelona, Mann and Venice, Isherwood and Berlin, Woolf and London) are chosen to explore the evolution of European identity and major historical, political, and cultural developments of the modern period.		
Fall 2010	M	ISQA	511	Sustainable Operations Management	4	This course provides an introduction to the concepts and analytic methods that are useful in understanding the management of a firm's operations and supply chain. The aim of the course is to (1) familiarize students with the basic language, concepts, insights and tools of operations and supply chain management, (2) demonstrate principles and methods for integrating sustainability into an organization using concepts such as the Toyota Production System, cradle-to-cradle principles, green procurement, and life cycle analysis, and (3) explore the relationship between sustainable supply chains and local and global economies in terms of environmental impact and social contribution. Prerequisite: Actg 512.	Change title and description.	

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Fall 2010	M	ISQA	512	Information, Systems, and Technology in Organizations	4	Course participants explore information, systems, and technology from a managerial responsibility perspective. This focus reflects prevailing industry expectations that business people be involved in decision-making and management related to information resources and enabling technologies. To this end, we consider strategic and operational initiatives in such areas as information management and analytics, information-technology governance, IT portfolio management, package and service selection, project management and system implementation, inter-organizational partnerships and sourcing, and ethical concerns related to technology design and information use. Managerial responsibility for social and environmental impacts associated with the management of information, systems and technology are explored.	Change course number from ISQA 551, change title and description.	
Fall 2010	N	ISQA	513	Business Decision Tools for Managers	2	This course builds directly from the on-line Essentials of Business Decision Tools completed prior to admission to the MBA+ program. Students will gain an in-depth understanding of the fundamental theories, concepts, and principles of quantitative analysis. Topics covered include estimation, hypothesis testing, ANOVA and regression analysis. Prerequisites: Essentials of Business Decision Tools (MBA+ program online prerequisite.)		
Fall 2010	N	ISQA	514	Applied Business Decision Tools	1	This course will be offered in two distinct one (1) credit hour sections: a) Data Analysis Techniques and b) Time Series and Forecasting Techniques. Students are required to take one of the two sections. Section a), Data Analysis Techniques, will focus on business applications for designing, administering and analyzing data from business research. This section will build directly from coursework in Mktg 511, Mktg 512 and/or ISQA 511. Section b) will focus on business applications that incorporate Time Series and Forecasting Techniques, including multiple regression procedures. This section will build directly from coursework in Fin 512. Prerequisites: ISQA 513.		
Fall 2010	M	ISQA	551	Managing Information Technology	4		Change course number to ISQA 512, change title and description.	
Fall 2010	D	ISQA	552	Managing Operations and the Value Chain	4			
Fall 2010	M	Lib	588	21st Century Technologies for Educators	4	Preservice and inservice teachers and librarians will keep pace with the changing technologies and develop their skills as webmaster, video producer, and technology expert. Analyze the role of computers and advanced technology in the library media center and classroom and study administrative uses as well as effective curriculum development. Learn assistive/adaptive technology as well as advanced video podcasting and screencasting for tutorial creation. Study and design a multimedia project utilizing various types of software and learn about advanced uses. Design custom videos for the classroom or library. This course is correlated with the National Educational Technology Standards (International Society for Technology in Education). Prerequisites: Lib 536 or consent of instructor.	Change title and description.	
Fall 2010	M	Ling	115	Writing Workshop for Non-native Writers	4	Designed for writers whose first language is not English to develop their skills and confidence in writing for college. Focuses on the rhetorical structures of American College-level academic writing including essay structure, summaries, responses, and research writing. In addition, students work on grammar and sentence structure problems which occur more often in non-native writing and do peer editing and self-editing. Understanding complex assignments, synthesizing ideas, and strategies for test taking are also addressed in this course.	Change title and description.	
Fall 2010	m	Ling	481 / 581	World Englishes	4	Explores the role of English as a world language. Using film, audio tapes, and English language newspapers from around the world, students will become familiar with such Englishes as Malaysian English, Indian English, Nigerian English, and Filipino English. Prerequisite: Ling 232 or 390.	Change prerequisites.	
Fall 2010	N	ME	213	Properties of Materials	4	Basic properties, behavior, and survey of engineering and industrial applications of metals, polymers, ceramics, and composites. Prerequisites: Ch 221. Lecture and laboratory.		

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Fall 2010	M	ME	241	Manufacturing Processes	4	Study from the designer's viewpoint of the principle manufacturing processes utilized. Includes casting, forming, material removal, and joining processes. Process selection will be discussed in terms of the economics, process effects on the products, and dimensional and quality of the finished product. Prerequisites: ME 213.	Change prerequisites.	
Fall 2010	N	ME	320	Fluid Mechanics	4	Properties of fluids; hydrostatics; fluid dynamics, Bernoulli's Equation; conservation of mass, energy, and momentum; differential analysis; and dimensional analysis. Prerequisites: EAS 215, Mth 256. Lecture and laboratory.		
Fall 2010	M	ME	322	Applied Fluid Mechanics and Thermodynamics	4	Internal flow, external flow, and compressible flow. Lift and drag. Turbomachinery, combustion, and psychometry. Prerequisites: ME 320, ME 321.	Change prerequisites.	
Fall 2010	M	ME	323	Heat Transfer	4	Fundamentals of engineering heat transfer with design applications; steady-state and transient analysis of conduction in one and two dimensions; concepts of convection, forced convection, internal and external flows, natural convection, and heat exchanger design; study of radiation concepts and surface radiation exchange between surfaces. Prerequisites: Mth 256, Mth 261, ME 320, ME 321.	Change prerequisites.	
Fall 2010	M	ME	350	Programming and Numerical Methods	2	Introduction to programming. Topics include: MATLAB programming; variables, arrays, logical expressions, and loops; structured programming with m-files, input and output control; introduction to engineering applications of numerical computing. 2 credits. Prerequisites: EAS 101, Mth 261.	Change title, description and credit hours from 4 to 2.	
Fall 2010	M	ME	351	Vibrations and System Dynamics	4	An introduction to vibrations and system dynamics for single and multiple degree-of-freedom linear systems. The course includes: free and forced vibrations; resonance; modeling of mechanical, fluid, and electrical systems; Laplace transformations; and dynamic system response in the time and frequency domains. Computer analysis and solution techniques will be utilized. Prerequisites: EAS 215, Mth 256, Mth 261, ME 320, ECE 241, ME 350.	Change prerequisites.	
Fall 2010	N	ME	370	Mechanical Engineering Profession	2	Presentation of a variety of specialties and career options for the graduates of the BSME program. Includes exposure to topics related to effective and responsible practice of mechanical engineering. Topics include: engineering ethics, intellectual property, business norms and practices, life-long learning, the relationship of engineering to society, and an awareness of contemporary local and global issues. Expected preparation: junior standing.		
Fall 2010	M	ME	413 / 513	Engineering Material Science	4	Study of materials with emphasis on solids; effect of microstructure and macrostructure on properties; equilibrium and non-equilibrium multiphase systems; effects of mechanical and thermal stresses, electromagnetic fields, irradiation, and chemical environments, surface and related phenomena; examples from metallic, ceramic, polymeric, and composite materials. Prerequisites: ME 213.	Change prerequisites.	
Fall 2010	M	ME	420 / 520	Thermal Systems Design	4	Introduction to the design of thermal systems for HVAC, energy conversion, and industrial process applications. Procedures for selection of fluid flow equipment, heat exchangers, and combustion equipment. Modeling performance of components and systems. Cost estimation and economic evaluation. Design optimization. Prerequisites: ME 320, ME 323.	Change prerequisites.	
Fall 2010	M	ME	441 / 541	Advanced Fluid Mechanics	4	Partial differential equations governing the conservation of mass, momentum, and energy of Newtonian fluids are derived. Dimensional analysis is used to simplify the governing equations and in particular justify the assumption of incompressible flow. Exact solution of the Navier-Stokes equations are presented. Boundary layer approximations to the governing equations are derived, and both exact and integral solutions are obtained. Prerequisite: ME 320.	Change prerequisites.	
Fall 2010	M	ME	447 / 547	Transfer and Rate Processes	4	An advanced treatment of heat, mass, and momentum transfer. Development of the conservation laws, transport laws, transport properties, and basic analytic solutions. Applications to heat transfer equipment, catalytic reactors, drying processes. Prerequisites: ME 323, ME 320, senior or graduate standing.	Change prerequisites.	

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Fall 2010	N	Mgmt	511	Foundations of Strategy	2	To survive and thrive in the global economy, organizations rely on leaders to analyze the competitive landscape, cultivate essential capabilities, and implement effective business models. These are the key contributors to a successful strategy. This course imparts the analytical skills and tools necessary for leaders to assess the external environment and develop the internal capabilities required for devising and implementing strategies that will contribute to sustained competitive advantage.		
Fall 2010	M	Mgmt	512	Organizational Management	4	Course participants explore organizational behavior, leadership, and human resource factors that contribute to long term value creation for the organization. Leadership emphasizes the creation and maintenance of relationships with key internal stakeholders as part of building organizational effectiveness, social responsibility and environmental stewardship into organizational systems. Organizations are studied from three perspectives: the individual, the work team, and the organizational system. Topics include motivation, performance assessment, creative problem solving and organizational learning, compensation, staffing, employee development, and organizational design and change.	Change course number from Mgmt 550, change description.	
Fall 2010	N	Mgmt	513	Law Ethics and Stewardship	4	The course is designed to provide students with an understanding of how political, social, legal, regulatory, and environmental issues impact business organizations within a global context. Topics covered include legal issues and compliance environments, business ethics, corporate social responsibility and the public policy process. Students gain an understanding of the relationships between values, ethics and legal and public policy environments, are able to aspire to high ethical standards, and build long-term stewardship of financial, societal and natural resources into an organization's strategy and operations.		
Fall 2010	N	Mgmt	514	Integrated Strategy	2	This course provides an integrative, capstone experience focused on strategy development and implementation in international and domestic organizations. Case analysis and advanced analytical frameworks are used to develop the skills and judgment necessary to provide strategic direction to organizations. Both business-level and corporate-level strategy development will be undertaken leading students to solidify their strategic mindset, which will be applicable across a broad range of organizations. Prerequisites: Mgmt 511, Fin 512.		
Fall 2010	M	Mgmt	550	Organizational Management	4		Change course number to Mgmt 512, change description.	
Fall 2010	D	Mgmt	560	Ethics in Organizations	2			
Fall 2010	D	Mgmt	562	Business Strategy	4			
Fall 2010	M	Mktg	512	Marketing Strategy	4	This course builds directly from the Pioneering Innovation course. Entrepreneurial as well as medium- and large-size organizations are considered in terms of how they develop and implement a marketing strategy. A key focus is to develop the necessary market planning and analytical skills. Specific topics include the role of marketing in a competitive environment, market segmentation, selection of target markets, development of product, pricing, packaging and distribution strategies. In addition, students will learn about social and 'green' marketing strategies and the impact of technology on marketing strategies and processes.	Change course number from Mktg 544, change title and description.	
Fall 2010	M	Mktg	544	Marketing Research and Strategy	4		Change course number to Mktg 512, change title and description.	
Fall 2010	M	Mth	070	Elementary Algebra	4	This is a basic course covering first-year high school algebra. Credit for enrollment (eligibility) but not toward graduation; satisfies no University or general education requirements. Prerequisites: passing at the "pre-algebra" level on the mathematics placement test within the last year or consent of the Department of Mathematics and Statistics.	Change prerequisites.	
Fall 2010	M	Mth	095	Intermediate Algebra	4	Topics include problem solving, linear equations, systems of equations, polynomials and factoring techniques, rational expressions, radicals and exponents, quadratic equations. Credit for enrollment (eligibility) but not toward graduation; satisfies no University or general education requirements. Prerequisites: passing at the "algebra 1" level on the mathematics placement test within the last year.	Change prerequisites.	

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Fall 2010	M	Mth	105	Excursions in Mathematics	4	Exploration of a variety of modern mathematical topics. Topics may include the mathematics of voting systems, graphs and networks, symmetry in art and nature, population growth, fractals, probability. Intended for students without a strong algebra/calculus background, but with a desire to explore some interesting mathematics. Prerequisites: passing at the "algebra 2" level on the mathematics placement test within the last year.	Change prerequisites.	
Fall 2010	M	Mth	261	Introduction to Linear Algebra	4	Introduction to rudimentary set theory, the algebra of sets, systems of linear equations, linear transformations, matrix algebra, vector spaces, and determinants. Prerequisites: Passing at the "pre-calculus" level on the mathematics placement test within the last year or Math 112 or above with a grade of C- or better within the last year.	Change prerequisites.	
Fall 2010	M	Mth	111, 112	Introductory College Mathematics I, II	4,4	An integrated treatment of topics from algebra and trigonometry. These courses serve as additional preparation for students with insufficient background who desire to take Mth 251, 252, 253. Neither Mth 111 nor 112 can be taken for credit if a grade of C-, P, or above has already been received for a course which requires either of them as a prerequisite. Courses must be taken in sequence. Prerequisites: Passing at the "Algebra 2" level on the mathematics placement test within the last year.	Change prerequisites.	
Fall 2010	M	Mth	211, 212, 213	Foundations of Elementary Mathematics I, II, III	4,4,4	A constructivist approach to fundamental ideas of mathematics. Courses must be taken in sequence. Prerequisites for Math 211: passing at the "Algebra 2" level on the mathematics placement test within the last year. Prerequisites for Mth 212, 213: Mth 211.	Change prerequisites.	
Fall 2010	M	Mth	251, 252, 253	Calculus I, II, III	4,4,4	Differential and integral calculus of functions of a single variable, analytic geometry, infinite series, an introduction to differential and integral calculus of functions of several variables and applications. Courses Mth 251, 252, 253 must be taken in sequence. Prerequisites: Passing at the "pre-calculus" level on the mathematics placement test within the last year or Mth 112 with a grade of C- or better within the last year.	Change prerequisites.	
Fall 2010	N	Mth	477 / 577, 478 / 578	Mathematical Control Theory I, II	3,3	Mathematical foundations of linear time invariant control systems. Controllability, observability, stabilizability, feedback. Elements of the calculus of variations and optimal control. Dynamic programming. Pontryagin maximum principle. Applications. Prerequisites: Mth 256. Expected preparation: Mth 253, 254.		
Fall 2010	M	Mth	487 / 587	Topics in Discrete Mathematics for Mathematics Teachers	3, 2-3	Selected topics from: permutations and combinations, partitions, generating functions, inclusion and exclusion principles, recurrence relations, Polya's theory of counting, elementary theory of graphs and trees, block designs. Applications directed to teaching of Discrete Mathematics at the high school level. With departmental approval may be repeated for credit. Prerequisite: at least two upper-division courses approved for math major credit. Enrollment is limited to pre-service and in-service mathematics teachers or by permission of instructor.	Change title, description and prerequisites.	
Fall 2010	N	MuEd	530	Managing the Music Classroom	2	Focus on classroom management techniques specific to music classrooms in K-12 schools, both large ensembles and general music courses. Students will research and problem-solve challenges in these unique classes.		
Fall 2010	M	MuP	590	Applied Music	1-2	Individual instruction in organ, piano, harpsichord, voice, guitar, conducting, and orchestral and band instruments. Maximum: 12 credits. Prerequisites: audition.	Change description.	
Fall 2010	N	OMSE	517	Agile Software Development	3	Designed for graduate level software engineering students who are interested in learning and applying the fundamentals of the Agile software development process in the real world. Explores Agile concepts both in theory and practice. Introduction to the principles and foundations of Agile Development, XP (Extreme Programming) and the SCRUM methodology. Also introduces the students to day-to-day life on an Agile team. Expected preparation: OMSE 500.		
Fall 2010	N	OMSE	534	Software Estimating	3	Software estimating techniques and tools enable the responsible software engineering manager to assess project feasibility, secure adequate budgets, and manage project tasks and schedules. The student learns how to make viable software estimates to consistently inform software project planning, scheduling, and oversight. The full range of software estimating methods and tools are explored. Prerequisites: OMSE 500, OMSE 511.		

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Fall 2010	M	OMSE	555, 556	Software Engineering Practicum	3,3	The objective of the practicum is to provide hands-on software engineering management and development experience applying the principles, methods, processes and tools learned from OMSE courses. The practicum is comprised of two parts and organized as two courses, OMSE 555 and OMSE 556 (3 credits each) completed in sequence. The class is grouped into one or more integrated project teams jointly undertaking a coordinated software engineering problem. The evaluation (grading) process equally weights group and individual performance. Problems undertaken by student teams apply the practices learned in OMSE classes across the software engineering process. Projects range from technical evaluations, analysis and specification, through architectural design to prototype development and testing. Every project involves applying best project management, quality assurance and configuration management practices. Prerequisites: all core OMSE courses.	Change title, description and prerequisites.	
Fall 2010	N	PA	553	Sustainable Development Policy and Governance	3	Foundation in sustainability-related policy design, policy analysis and governance approaches at multiple jurisdictional levels and in different cultural and social contexts. Explores challenges and opportunities related to developing policies and governance models that address the complex social, economic and environmental aspects of sustainability. Examines the role systems thinking plays in policy development and analysis in order to achieve integration across scales and sectors. Relevant topical issues serve as the focus for exploring how policy development and governance develops on the ground.		
Fall 2010	N	PA	558	Managing Public Projects and Programs: From Local to Global	3	Introduction to management concepts and tools required for the design, implementation and sustainability of public sector (government and non-governmental organizations) programs and projects. Draws on contemporary literature and case studies. Students apply their management learnings from this course to a real-life program or project. Expected preparation: PA 511 or PA 533 or PA 540.		
Fall 2010	N	PA	562	Managing Employee Performance in the Public Sector	3	Managing human capital can be a challenging endeavor and doing so in the public sector, particularly in government, introduces the added burden of politics. Explores the multifaceted nature of performance in the workplace including the political, legal, economical and managerial issues that often accompany addressing employee performance in the public sector (government and nonprofit). The goal is to manage and improve human resources while holding individual employees and public agencies account for organizational performance. Prerequisites: PA 590.		
Fall 2010	N	PA	581	Advanced Fundraising	3	Focuses on the understandings, processes, and skills that are necessary for successful major gift development. Addresses the process of developing advanced fundraising techniques, beginning with the formulation of the development plan, moving through developing a gift management system, and concluding with application and design of effective gift stewardship. The steps in the process are identified in general terms with specific application applied to the context of student experience or projects. Also covers the role of leadership especially volunteer leadership, and the relationship of that leadership with other human resources such as the Development Officer or the Chief Executive Officer. Expected preparation: PA 526.		
Fall 2010	N	Ph	337	Physics in Biomedicine	4	The physics behind the most important medical instruments and technologies. A wide range of concepts from electromagnetism, optics, to quantum mechanics are used to explain the mechanisms behind ultrasound, endoscopy, optical microscopy, EKG, pacemaker, defibrillators, LASER eye surgery, microscopy, x-ray, radiation, CAT scan, PET scan, MRI, and more. Expected preparation: Ph 201, 203 or Ph 101, 102.		
Fall 2010	M	Ph	375	Climate Change and Human Life	4		Change title.	
Fall 2010	N	Phi	366	Medieval Philosophy	4	Study of philosophy during the Medieval period. Topics include developments in logic, role of faith and reason in knowledge, and use of Platonic and Aristotelian philosophy. Readings include Christian, Jewish, and Islamic authors. Expected preparation: Phi 301.		

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Fall 2010	N	Phl	447 / 547	Topics in Social and Political Philosophy	4	An in-depth study of an important current issue (such as global justice, multiculturalism, or power) or figure (such as John Rawls, Jürgen Habermas, or Michel Foucault) in social and political philosophy. Course may be repeated for credit if topics are different. Prerequisites: Phl 316 or junior-level standing or by instructor approval.		
Fall 2010	M	Psy	342	Social Psychology: Self, Attitudes and Social Influence	4	Examination of psychological and sociological processes associated with people's thoughts about and interactions with one another. Particular emphases on self, social identity, social cognition, attitudes, prejudice and persuasion. Expected preparation: Soc 200, or Psy 200 or 204. Credit will not be given for both Soc 342 and Psy 342.	Change title and description.	
Fall 2010	M	Psy	343	Social Psychology: Social Relationships and Groups	4	Examination of sociological and psychological processes associated with interpersonal, group, and inter-group behavior. Particular emphases on aggression, pro-social behavior, interpersonal attraction, group influence, conflict and cooperation. Expected preparation: Soc 200, or Psy 200 or 204. Credit will not be given for both Soc 343 and Psy 343.	Change title and description.	
Fall 2010	M	Psy	342, 343	Social Psychology I, II	4,4		Separate 342 from 343, change titles and descriptions	
Fall 2010	M	Psy	495 / 595	Introduction to Psychological Measurement	4	Theories, methods, and implications in the development and validation of measures of psychological constructs. Students will learn about the issues of reliability, validity, item analysis, standardization, and applications of measures via both lectures and hands-on experiences in the lab. Prerequisites: Stat 243 and 244, and Psy 321.	Change title and description.	
Fall 2010	N	Psy	517 / 617	Advanced Industrial Psychology	4	Theory, methods, and selected topics in industrial psychology including job analysis, performance appraisal, personnel selection, legal issues, and training. Expected preparation: admission to Psychology graduate program.		
Fall 2010	N	RSt	201	Introduction to Religious Studies I: Introduction to World Religions	4	Introduction to a number of religious traditions in their classical formulations and their contemporary practices, as well as to the academic study of religion. Prepares students for further academic study in both the humanities and social sciences.		New prefix RSt for minor in Religious Studies.
Fall 2010	N	RSt	301	Introduction to Religious Studies II: The Study of Religion	4	Examination of the theories and methods of the academic study of religion. Expected preparation: RSt 201.		New prefix RSt for minor in Religious Studies.
Fall 2010	N	RSt	415	Contemporary Issues in Religious Studies: Tradition, Time and Place	4	Examines how religious communities respond to changes arising from the passage of time and patterns of migration. Special attention will be paid to the Portland area. Prerequisites: RSt 201 and RSt 301, or consent of instructor.		New prefix RSt for minor in Religious Studies.
Fall 2010	N	Soc	330	Sociology of Food Inequalities	4	Examination of food and nutrition issues and problems through the lens of the social sciences, with an emphasis on inequalities in the production, distribution and consumption of food. Economic, social, political and symbolic dimensions of food systems and food behaviors. Social determinants of hunger, malnutrition, and obesity. Exploration of solutions at the local, societal and global levels		
Fall 2010	M	Soc	342	Social Psychology: Self, Attitudes and Social Influence	4	Examination of psychological and sociological processes associated with people's thoughts about and interactions with one another. Particular emphases on self, social identity, social cognition, attitudes, prejudice and persuasion. Expected preparation: Soc 200, or Psy 200 or 204. Credit will not be given for both Soc 342 and Psy 342.	Change title and description.	
Fall 2010	M	Soc	343	Social Psychology: Social Relationships and Groups	4	Examination of sociological and psychological processes associated with interpersonal, group, and inter-group behavior. Particular emphases on aggression, pro-social behavior, interpersonal attraction, group influence, conflict and cooperation. Expected preparation: Soc 200, or Psy 200 or 204. Credit will not be given for both Soc 343 and Psy 343.	Change title and description.	
Fall 2010	M	Soc	397	Social Research Methods	4	Study of the structuring of sociological inquiry, conceptualization and measurement, operationalization, computers in social research, analysis of bivariate and multivariate relations, the logic of sampling and inference. Course includes lecture (4 hours per week) and an introductory research laboratory (2 hours per week). Prerequisites: Stat 243. Expected preparation: Soc 200, 301, 302.	Change prerequisites.	
Fall 2010	D	Soc	523	Stratification	4			Drop grad section from Soc 423/523.
Fall 2010	D	Soc	559	Sociology of Health and Medicine	4			Drop grad section from Soc 459/559.

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Fall 2010	D	Soc	565	Environmental Sociology	4			Drop grad section from Soc 465/565.
Fall 2010	M	Soc	342, 343	Social Psychology I, II	4,4		Separate 342 from 343, change titles and descriptions	
Fall 2010	N	Soc	448 / 548	Sociology of Education	4	Development of a sociological understanding of education in the United States. Examination the role of schooling in regards to the larger society, the social structure of schools, processes of social mobility, stratification and social reproduction; the dynamics of race, class, and gender inequalities in education, student teacher relationship; school choice; and the outcomes of education. Prerequisites: Soc 300. Expected preparation: Soc 200.		
Fall 2010	N	Soc	450 / 550	Sociology of Higher Education	4	Social factors affecting individuals within higher education. Particular attention to inequalities within higher education and the role higher education plays in promoting social mobility as well as social reproduction. Includes models of higher education, the application of sociological theories to issues in higher education, access to college, Affirmative Action, standardized testing, and class, race, and gender-based differences in individual educational outcomes and retention. Prerequisites: sophomore standing or higher. Expected preparation: Soc 200.		
Fall 2010	M	Soc	584 / 684	Social Inequality	4		Change course number from 684 to 584/684.	
Fall 2010	M	Soc	587 / 687	International Health Inequalities	4	Explores the sociology of health and inequality in an international context. Topics include international health institutions, healthcare systems, and the social determinants of health inequalities in a global perspective.	Change title, description and prerequisites.	
Fall 2010	N	Span	340	Fundamentals of Spanish Literary Studies	4	Introduction to the study of Spanish literature. Lectures and discussions on Spanish prosody, genres, fundamentals of literary analysis, and criticism. Prerequisites: Span 303.		
Fall 2010	N	Span	498 / 598	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. Prerequisites: Span 303. Expected preparation: Span 494.		
Fall 2010	M	SPED	568	Advanced Behavior Management	3	Course for educational professionals serving students with challenging behavior. Focuses on a continuum of behavioral intervention in schools including functional behavioral assessment and positive behavioral supports for students with challenging behavior. Prerequisites: SpEd 521.	Change description.	
Fall 2010	M	Stat	105	Elementary Data Analysis	4	On-line course in exploration of data analysis and basic statistical topics. May include descriptive statistics, graphical and tabular summaries, computer software, confidence intervals, correlation and regression. Prerequisites: passing at the "algebra 2" level on the mathematics placement test within the last year.	Change prerequisites.	
Fall 2010	M	Stat	243	Introduction to Probability and Statistics	4	A basic course in statistical analysis including presentation of data probability, probability distributions, sampling distributions, estimation, tests of significance, experimental design and analysis of variance, regression and correlation, nonparametric statistics, selected topics, applications, and use of statistical computer packages. A broad nontechnical survey designed primarily for nonmath students who need to utilize the subject in their own fields. Not approved for major credit. Courses must be taken in sequence. Prerequisites: Passing at the "algebra 2" level on the mathematics placement test within the last year.	Change prerequisites.	
Fall 2010	M	Stat	461 / 561, 462 / 562, 463 / 563	Introduction to Mathematical Statistics I, II, III	3,3,3		Separate 461, 462, 463 from 561, 562, 563	
Fall 2010	M	Stat	461, 462, 463	Introduction to Mathematical Statistics I, II, III	3,3,3	Theory of probability, distributions of random variables, central limit theorem, sampling distributions, point and interval estimation, tests of hypotheses, analysis of variance. Courses must be taken in sequence. Prerequisites: Mth 256.	Separate 400 series from 500 series, change title description and prerequisites.	

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Fall 2010	M	Stat	561, 562, 563	Mathematical Statistics I, II, III	3,3,3	Taught at a higher level than Stat 461, 462, 463. Provides a solid foundation in the theory and methods of statistical inference. Topics include conditional distributions, functions of random variables, sampling distributions, order statistics, convergence in distribution and convergence in probability, central limit theorems, sufficiency, point estimation, confidence intervals, and testing of statistical hypotheses, most powerful tests, likelihood ratio tests, categorical data analysis, regression, nonparametric methods, and Bayesian inference. Prerequisites: Stat 462 or equivalent.	Separate 400 series from 500 series, change title description and prerequisites.	
Fall 2010	M	SW	400	Practicum and Seminar I-III	4	This course is the agency-based internship where students apply social work knowledge and develop generalist social work skills. Students are supervised in community agencies by qualified field instructors. Community based learning is enhanced through a seminar that assists students to integrate theoretical learning with practical application and develop a generalist social work professional identity. Prerequisites: SW439, SW440 SW 491 and SW 492. Corequisite: SW430, 431 and 432.	Change description and prerequisites.	
Fall 2010	M	SW	439	Social Justice and Social Work	3		Change title.	
Fall 2010	M	SW	440	Human Behavior in the Social Environment: Macro	4		Change title.	
Fall 2010	M	SW	450	Research Methods for Social Work Practice I	3	Introduction to research in social work. Stresses the importance of research to social work practice and policy. Introduction to ethics of social work research, qualitative and quantitative methods, group designs and single case studies. Considers scientific method, systematic inquiry, relation of theory to research, problem formulation, measurement, sampling, design, and data collection. Emphasis on application of research to practice and on evaluation of own practice. Prerequisite: Admission to major, SW439.	Change prerequisites.	
Fall 2010	M	SW	451	Research Methods for Social Work Practice II	3	Focuses on techniques of quantitative data analysis and introduces methods of qualitative data analysis. Focus on interpreting and using data to improve social work practice, including program evaluation and advocacy for client groups. Covers descriptive statistics, probability theory and hypothesis testing, and inferential methods. Includes discussion of culturally sensitive research and ethical issues in social work research. Prerequisite: Admission to major, SW450.	Change prerequisites.	
Fall 2010	M	SW	491	Human Behavior in the Social Environment: Micro	4		Change title.	
Fall 2010	M	SW	492	Social Welfare Policy	4		Change title.	
Fall 2010	M	SW	430, 431, 432	Generalist Social Work Practice I, II, III	3,3,3	Based on generalist social work practice principles, this three-term sequence examines the major influences on the service delivery system with emphasis on the multiple roles of the generalist social worker, and social work values and ethics. Examines the entire change process, focusing on assessment, goal formulation, intervention, evaluation, and endings through the lenses of strengths, empowerment, and ecological systems perspectives. Focus is on multiple levels of practice: individual, family, group, organization, and community. Introduction to theory and application of theoretical concepts to guide change activities. Development of interviewing skills for engagement, development of rapport, definition of purpose, assessment, intervention, and endings, taking account of cultural considerations. Integration of attention to populations at risk. Assessing and facilitating macro-level change process. Advocacy, collaboration and teamwork examined, with emphasis on strategies of promoting equity and social justice and preparing students for entry level professional practice. Prerequisites: SW 430-431, SW 439, SW440, SW491, SW492 Corequisite: SW400.	Change prerequisites.	
Fall 2010	M	SW	522	Issues in Child Welfare	3	Discusses the rapid change in the goals and methods of child welfare agencies, those agencies charged with the protection of children and the provision of permanency in their lives. Analysis of the formation of policy to reflect empirically based knowledge, ever changing community forces, and developing practice wisdom. Explores major issues facing child welfare services today. Develops skills for policy change. Prerequisites: SW 520 or SW 589 (Advanced standing only).	Change prerequisites.	

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Fall 2010	M	SW	523	Health Care Policies and Programs	3	Advanced policy course analyzes the history of selected health care policies, programs, and disease categories within the context of social work practice in health care. Contemporary outcomes in current health and service delivery systems presented from a policy perspective. Develops skills for policy change. Prerequisites: SW 520 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	524	Community Organization	3	Presents community organizing as a well-established social work method for promoting social change and improving community life through community and institutional reform. Topics for class will include an overview of the history of community organizing, models of social change (locality development, social planning and social action), methods of social change (advocacy, mobilizing, organizing, coalition building, and partnership), examples of community-based organization, leadership development, and measuring the benefit to communities. Discussion also includes understanding the role of power and culture that exists within neighborhoods and communities. Prerequisites: SW 520 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	525/625	Poverty: Policies and Programs	3	Examines the nature and causes of poverty and inequality in the United States and the impact of economic globalization on social work's response to these critical social problems. Studies ways in which people in poverty cope and support each other in low-income urban neighborhoods; examines the ways in which work and welfare interact with each other and with informal social supports. Addresses policy issues, including those involved in both service and income strategies to relieve or prevent poverty; develops skills for effective practice with low-income communities, families, and individuals. Prerequisites: SW 520 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	526	Social Work and the Law	3	Topics include an overview of the legal system, the legal basis of the professional relationship, confidentiality and legal privilege, informed consent, the right to treatment and entitlement of mentally disabled and HIV positive persons, professional malpractice and other legal liabilities—including termination and abandonment—social welfare law, family law and adoption, and unlawful discrimination. Prerequisites: SW 520 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	527	Political and Legislative Advocacy	3	Exposes students to strategies and tactics for political and legislative advocacy. Emphasis is placed on developing skills for effective political lobbying, including the mechanics of political campaigns and working with policy-makers, citizens and issue-specific communities and political interest organizations. Students will be introduced to working with professional/community organizations and coalitions, local, state and federal level policy and decision-making processes, and methods to influence legislative process and administrative rule implementation. Prerequisites: SW 520 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	529/629	International Mental Health Policy	3	Compares mental health policies from a global perspective, emphasizing United Nations and World Health Organization perspectives. Programs and policies from various countries are compared and contrasted with those of the U.S., and Oregon in particular. Prerequisites: SW 520 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	533	Advanced Practice for Direct Human Services I	3	Reviews the problem-solving process and introduces the process of constructing a frame of reference or model of practice. Addresses the evaluation of practice and theories for understanding individuals and how they both seek and resist change. Application of theories to the direct social work practice process with consideration of the importance of culture, strengths, and empowerment. Prerequisites: SW 532 or SW 589 (Advanced standing only); corequisite: SW 500.	Change prerequisites.	
Fall 2010	M	SW	534	Advanced Practice for Direct Human Services II	3	Addresses the family of origin perspective on family systems theory. Both the worker's and the client's families of origin considered as sources of influence on the intervention process. Provides advanced consideration of family centered practice and integration of other theories with family systems theory. Prerequisites: SW 533 or SW 589 (Advanced standing only); corequisite: SW 500.	Change prerequisites.	

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Fall 2010	M	SW	535	Advanced Practice for Direct Human Services III	3	This course builds on material presented in SW 533 and SW 534 and provides students with an opportunity to integrate knowledge gained across courses and field practica. The primary purpose of integrating knowledge and experience is for students to develop and articulate a personal practice model, as this is an essential step to beginning a professional career. Additionally, post-masters professional development including supervision, self-care, and licensure will be addressed. Prerequisites: SW 534 or SW 589 (Advanced standing only); corequisite: SW 500.	Change prerequisites.	
Fall 2010	M	SW	536	Advanced Community-Based Practice I	3	First of 3-course concentration that emphasizes the person-environment interplay with a focus on the identification of multilevel assessment strategies in collaboration with local citizens, leaders, associations, and institutions. Utilizes assets-based, community development perspective to assist individuals, families, neighborhoods, and functional communities and organizations in identifying and meeting community social justice needs. Focuses on strategies for engaging groups, communities, and organizations using multicultural communication techniques and other qualitative assessment approaches. Identifies individual, group, and community resilience while assisting in assessing local strategies that strengthen protective factors and lower risk factors for ethnically and culturally diverse families, schools, neighborhoods, and communities. Prerequisites: SW 532 or SW 589 (Advanced standing only); corequisite: SW 500.	Change prerequisites.	
Fall 2010	M	SW	537	Advanced Community-Based Practice II	3	Emphasizes the person-environment interplay with a focus on collaborative partnerships between local citizens, leaders, associations, and institutions. Builds intervention strategies based upon the asset-based, qualitative assessment techniques and perspectives utilized in identifying issues of concern that are driven by collaborative efforts. Focuses on the consumer/community perspective while assisting in implementing local strategies that strengthen protective factors and lower risk factors for ethnically and culturally diverse families, schools, neighborhoods, and communities. Prerequisites: SW 536 or SW 589 (Advanced standing only); corequisite: SW 500.	Change prerequisites.	
Fall 2010	M	SW	538	Advanced Community-Based Practice III	3	Provides integrative experiences and materials building on and supportive of SW 536/537. Emphasis is placed on skills and techniques for the evaluation of community-based practice; articulation of the student's personal model/framework of reference for community-based practice; and strategies for post-master's professional development and contributions to the student's field of community-based practice. Prerequisites: SW 536, SW 537 or SW 589 (Advanced standing only); corequisite: SW 500.	Change prerequisites.	
Fall 2010	M	SW	544/644	Mid-life and Beyond	3	Focuses on development in mid and late adulthood from a lifespan perspective and promotes an appreciation of the developmental potential for normal and healthy aging. Explores demographic, socio-historical and developmental characteristics of the currently emerging cohort of older adults. Focuses on current developmental theories in social cognition and identity development in mid and late adulthood, contemporary psychodynamic views, and spiritual and transcendent possibilities for late adulthood. Addresses practice implications related to theories, especially as they relate to important developmental transitions. Prerequisites: SW 540 SW 541 or SW 589 (Advanced standing only), or admission to Gerontology Certificate Program with consent of instructor.	Change prerequisites.	
Fall 2010	M	SW	545/645	Advanced Human Behavior in the Social Environment	3	Provides an opportunity for students to explore current theoretical developments in the social and behavioral sciences which apply to social work practice including populations at risk. Taught in different sections each of which covers social and cultural contexts for human behavior in the social environment. May be repeated for additional credit. Prerequisites: SW 540, SW 541 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	546	Human Sexuality and Social Work	3	Physiological, psychological and cultural perspectives of human sexuality presented and discussed. Application of social work assessment and change strategies relevant to personal and interpersonal dynamics of sexual and intimacy concerns. Prerequisites: SW 532, 540 or SW 589 (Advanced standing only).	Change prerequisites.	

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Fall 2010	M	SW	552/652	Advanced Social Policy Analysis	3	Selected social policy evaluation models and techniques reviewed, including discursive approaches. Content area foci include mental health, child welfare, disabilities and aging. Current policy initiatives covered from social welfare and legislative perspectives. Use of data analysis strategies to evaluate social welfare problems and their implications for policy development and implementation considered. Encompasses development of policy evaluation questions and design of appropriate methodologies to address those questions including evaluation design, sampling, measurement and analysis. Prerequisites: SW 520 and 551 or SW 622 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	554	Social Work and Health Care	3	Presents an overview of social work across health care settings and systems. Physiological, psychosocial, and cultural components of illness considered for individuals, families, and groups. Multidisciplinary teamwork, crisis intervention, and ethical dilemmas in health care practice explored. Prerequisites: SW 532 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	555	Social Work Perspectives on Mental Health Disorders	3	Explores the major mental health disorders from an understanding of the biological, psychological, social and cultural determinants of mental illness. Emphasis is given to the changing roles of social workers who work with people diagnosed with a mental illness. Topics include ethics of diagnosing, history and theories of mental illness, overview of classification systems including a review of six major DSM-IV diagnostic categories, biopsychosocial model of assessment which includes diagnostic interviewing, accessing evidence-based practice (EBP) interventions, and applying practice evaluation methods to EBP strategies. Prerequisites: SW 532, SW 540 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	557	Psychotherapy: Theory and Practice	3	Provides coverage of advanced mental health practice, including understanding of theory, applying techniques in clinical practice, and the current state of the research evidence for psychodynamic and cognitive-behavioral therapy. Provides practice content for clinically-oriented social work students. Prerequisites: SW 540, SW 541 and SW 533 or SW 589 (Advanced standing only). [CHANGE PREREQUISITES]	Change prerequisites.	
Fall 2010	M	SW	558	Abuse and Trauma: Theory and Intervention	3	Examines the impact of trauma and abuse on adults, children, and families. Acute and long-term sequelae will be identified, emphasizing the interaction of traumatic and developmental effects. An integrative biopsychosocial intervention model for working with individuals, groups, and families will be explored through crisis and trauma, psychodynamic, constructivist, narrative, and feminist theories. Policy practice and advocacy issues, ethical and ideological issues, and current clinical, research, and policy debates in the field will be identified and discussed. The relationship of clinical narrative to contemporary social discourse about abuse and trauma will set the framework for the course, including clinical and empirical knowledge regarding effects of abuse and trauma and efficacy of treatment. Prerequisites: SW 532, SW 540 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	560	Social Work with Gay, Lesbian, Bisexual, and Transgendered Individuals, Families, and Communities	3	Explores social work practice with gay, lesbian, bisexual, and transgender individuals, their families, and communities. Students examine the policy context of practice as it is affected by institutional and cultural homophobia or heterosexism. Takes a lifespan approach to practice issues, covering topics such as: developmental theories of gender identity and sexual orientation, families of origin, 'coming-out', dating, partnering, child-rearing, defining family and community, and aging. Important topics such as gender transitioning, HIV prevention and treatment, same-sex domestic violence, and chemical dependency will be presented. Special classroom emphasis will be placed on developing practice awareness within a historical and political perspective. Prerequisites: SW 532 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	561	Clinical Social Work with Groups	3	Deals with the theory and practice of clinical social work within the wide range of groups in which social workers participate as workers and co-workers. Articulates issues related to group process and development as to their effect on the group experience. Includes leadership strategies and diverse populations. Prerequisites: SW 532 or SW 589 (Advanced standing only).	Change prerequisites.	

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Fall 2010	M	SW	562	Social Work with Grief and Loss	3	Examination of death at different stages of the life cycle. Review of theory and research about death and dying, loss, and grief resolution. Unique cultural and religious differences are emphasized. Examines social service assistance for persons, families and communities that face acute, chronic and terminal illnesses. Prerequisites: SW 532, 540 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	563	Social Work with Children, Adolescents, and Their Families	3	Explores clinical social work practice with children, adolescents, and families. Emphasizes a collaborative and contextual approach that, in addition to child-focused interventions, includes work with parents, families, and groups in a variety of settings. Delineation and demonstration of specific clinical strategies and techniques with opportunities to practice and apply to field work. Prerequisites: SW 532 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	564	Social Work in Schools	3	Uses a policy/practice perspective to prepare students for effective and culturally sensitive social work practice in early childhood and K-12 education. Presents multiple roles of school social workers and educational policies that provide context for practice. Emphasizes collaboration among families, schools, and communities. Prerequisite; SW 532 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	566	Social Work Practice in Child Welfare	3	Designed for students who are either considering a career or are interested in public child welfare. Explores selected areas of child welfare related to child maltreatment. Emphasis on the critical examination of empirically based case management intervention strategies and their appropriate use with children and their families. Prerequisites: SW 532 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	567	Evidence Based Interventions for Community Mental health Practice	3	Reviews and critiques evidence-based interventions for community-based mental health populations. These interventions include supported employment, assertive community treatment/case management, psychosocial rehabilitation, psychopharmacology, recovery and consumer perspectives, and integrated treatment for co-occurring substance use disorders. Theoretical frameworks include harm reduction, transtheoretical/readiness to change, and health promotion. Prerequisites: SW 532, SW 540 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	571	Substance Use, Abuse and Addiction and Social Work Practice	3	Designed to provide students with a foundation in both direct and indirect social work practice issues with clients, families and communities challenged by substance abuse and addiction. The primary goal is to assist students in further developing and integrating their social work practice frameworks with deeper understanding and skill regarding the psychodynamic, biological and ecological nature of substance abuse disorders, as well as the range of evidence-based practices available to address them. Prerequisites: SW 532 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	574	Social Work with Frail Older Adults	3	Mental and physical frailties experienced by older adults are examined for their implications for adaptation and intervention. Mental disorders as they are uniquely characterized in late adulthood are reviewed, with special emphasis on age appropriate assessment. Psychosocial interventions for both community and institutionalized populations will include individual, family, group, and environmental approaches. Prerequisites: SW 532 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	575	Multicultural Social Justice Work in Action	3	Examines current perspectives on multicultural practices for children and families marginalized due to vulnerable social status such as; ethnicity, culture, race, economic status, sexual identity and other forms of bias in the larger service systems and society. Specific assessment and intervention strategies include ethnically sensitive practice, cultural awareness and effective approaches for intervening with children, families and the social service providers. Students will examine international perspectives on effective practice with vulnerable groups and will gain an enhanced appreciation for how values and customs of the larger society shape experience and life chances for ethnically and culturally diverse people. Prerequisites: SW 532 or SW 589 (Advanced standing only).	Change prerequisites.	

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Fall 2010	M	SW	578/678	Social Work in the Juvenile and Criminal Justice Systems	3	Analyzes current controversies concerning the origin and meaning of criminal and delinquent behavior; the socio-economic and multicultural characteristics of contemporary life contributing to delinquency and crime; social work's role in the "people processing system"; the major current modalities and inquiry into their effectiveness; social policy issues confronting the juvenile justice system; and current policy and practice trends toward incarceration and away from rehabilitation. Prerequisites: SW 520 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	579	Working with Involuntary Clients	3	Course examines legal, ethical and effective practice with involuntary clients, often members of oppressed groups. Will also address research regarding "involuntary practitioners," self-care, client advocacy, value conflicts, and reform efforts. Prerequisites: SW 532, SW 550 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	580	Introduction to Social Service Administration, Leadership and Management	3	Introduces the student to theoretical and practical elements of social work administrative and management roles to develop and manage the conditions, processes and mechanisms that support evidence-based service delivery systems that benefit consumers, families and communities. Topics include analysis of contemporary organizational leadership task environments, internal and external assessment skills and tools, building strong coalitions and developing strong cross-sector collaborations for dynamic social problem impact and understanding theoretical underpinnings of a variety of organizational leadership approaches. Prerequisites: SW 532 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	581	Issues in Social Service Administration, Leadership, and Management	3	Emphasizes critical leadership and management skills relevant to a variety of for-profit, non-profit and government social service agency environments including managed care principles, internal advocacy, hiring processes and procedures, staff supervision and discipline, staff ethics, sexual harassment, and equal employment opportunity laws. Analyzes management philosophy in complex organizations, team building, work with governance boards, participation in organizational planning, and program quality and development of accountability systems. Prerequisites: SW 520, SW 532 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	582	Social Service Program and Policy Development	3	Focuses on the conceptual and behavioral skills related to planning and designing programs, program/policy evaluation, and understanding the analysis and design of agency policy and the role of policy in the change process. Students learn ways to compose statements of need, goals, objectives, interventions, action plans, evaluation approaches, and policy changes. Prerequisites: SW 520, SW 532 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	590	Advanced Topics in Applied Research Methods for Social Work	3	Builds on foundation research methods and data analysis courses. Courses offered under this number present an evidence-based framework for social work practice and methods for analyzing quantitative data (e.g., multiple linear regression) and/or qualitative data (e.g., ethnography). Emphasizes application of methods to build knowledge in a specialized area relevant to a student's field of practice and/or to complete an evaluation of program(s) or practice. Emphasizes interpretation of results to inform effective social work practice in community and agency-based settings. May be repeated for credit. Prerequisites: SW 551 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	M	SW	591	Child and Adolescent Behavior and Development in the Social Environment: Advanced Theory and Research	3	Builds on foundation courses on micro and macro Human Behavior in the Social Environment and on foundation courses on research methods. Presents ecological-developmental framework and empirically-supported and culturally sensitive theories for understanding individual, family, peer, school, community, and societal influences on child and adolescent behavior and development. Presents a prevention framework for building and using research-based knowledge of behavior and development. Emphasizes integration of theory and research to guide social work practice. Prerequisites: SW 541 and 551 or SW 589 (Advanced standing only).	Change prerequisites.	
Fall 2010	N	SySc	346	Exploring Complexity in Science and Technology	4	Introduction to Complex Systems, an interdisciplinary field that studies how collections of simple entities organize themselves to produce complex behavior, use information, and adapt and learn. Focus on common principles underlying complexity in science and technology, and includes ideas from physics, biology, the social sciences, and computer science. This course is the same as CS 346; course may be taken only once for credit.		

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Fall 2010	N	SysE	567	Systems Engineering Management	4	Management techniques applicable to Systems Engineering as part of its interface role to integrate project control (cost and scheduling) and technical specialties, including evaluating new technologies and integrating with legacy systems, technical performance measures, development-process tailoring, maturity assessment models, conducting technical reviews. Expected preparation: SysE 591.		
Fall 2010	N	Tur	331	Women and Gender in Turkey	4	Explores construction of gender, women's roles and issues through modern Turkish literature and culture. Conducted in English.		
Fall 2010	D	USP	534	Data Analysis I	4		Separate 534 from 634 and delete 534.	
Fall 2010	D	USP	554	Data Analysis II	4		Separate 554 from 654 and delete 554.	
Fall 2010	N	USP	496 / 596	Affordable Housing Finance	3	Introduction to the unique challenges of financing and developing affordable housing projects. The challenges and tools for financing rental as well as owner-occupied housing will be covered, and case studies will be used to illustrate the ways in which financing for affordable housing is created and used, and poses unique challenges for investors, jurisdictions, and community-based groups. Expected preparation: USP 312U.		
Fall 2010	M	Wr	210	Grammar Refresher	4	A writing course for students who wish to refresh their grammar skills. Using informal and formal writing, it focuses on parts of speech, sentence construction, and punctuation; tracking particular grammar problems; and learning to edit.	Change description.	
Fall 2010	M	Wr	300	Topics in Composition	4	Issues in composition. Includes such topics as writing and critical reasoning, writing with technology, and writing in the disciplines. May be repeated for credit with different topics.	Change title, description.	
Fall 2010	N	Wr	400 / 500	Advanced Topics in Composition	4	Examines a variety of advanced issues in composition. Includes such topics as writing and healing and writing with technology. May be repeated for credit with different topics. Prerequisites: junior standing.		