

2017

## Curriculum Change 2017-2018

Portland State University

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<b>PSU Curricular Changes - Effective for Academic Year 2017-18</b>									
This list submitted to OrACRAO on: July 26, 2017									
PSU Curricular Change Cycle: Annual									
PSU annual submission date: July of each year									
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 2017	M	Actg	490	Advanced Financial Accounting	2	Emphasizes accounting for business combinations. In addition, accounting issues related to partnerships and foreign currency translation and transactions are studied. Prerequisite: Actg 382.	Prerequisites.		
Fall 2017	M	Actg	525	Tax Research Documentation and Procedure	4	Methods of researching tax rulings and laws in tax accounting; study of the administration and responsibilities of tax practice.	Title, description, prerequisites.		
Fall 2017	M	Actg	527	Corporate Taxation I	4	Introduction to the tax laws relating to corporations and their owners. The purpose of the course is develop an understanding of the federal income tax rules of the United States as they apply to the formation, operation, distribution, and liquidation of corporations. Prerequisites: Actg 525, Actg 526, Actg 530.	Title, description, prerequisites.		
Fall 2017	M	Actg	530	Taxation of Property Transactions	2	Students are provided with the federal income tax consequences resulting from sales, exchanges, and other dispositions of property, determining the taxable event; ascertaining basis and amount realized; depreciation deductions; ascertaining gain or loss; limitations regarding the use of losses, including the at-risk and passive activity loss provisions.	Description, credit hours from 3 to 2.		
Fall 2017	M	Actg	539	Trust, Estate & Gift Taxation	4	This course consists of a detailed review of the federal estate tax, gift tax and generation-skipping tax laws. In the area of estate taxation, assets included, credits permitted and deductions allowed are reviewed in detail by reference to law, regulations and cases.	Title, description, credit hours from 3 to 4.		
Fall 2017	M	Actg	550	Advanced Financial Reporting	4	Financial reporting for analysts. Studies how financial statements communicate the outcome of a company's operating, financing and investing transactions. Contemporary issues are examined in the context of factors that shape accounting standards and current trends in financial reporting. Prerequisites: Actg 511 or admission to the MSF program.	Title, prerequisites.		
Fall 2017	M	Actg	551	Accounting Information Systems	4		Course number changed to Fin 535; title, description, credit hours from 4 to 2..	See Fin 535.	
Fall 2017	M	Age	516	Families and Aging			Prefix change from PHE.	No other changes to course.	
Fall 2017	M	Age	523	Business and Aging			Prefix change from PHE.	No other changes to course.	
Fall 2017	M	Age	556	Health Aspects of Aging			Prefix change from PHE.	No other changes to course.	
Fall 2017	M	Age	557	National Long-Term Care Policy			Prefix change from PHE.	No other changes to course.	
Fall 2017	M	Age	558	Perspectives on Aging			Prefix change from PHE.	No other changes to course.	
Fall 2017	M	Age	559	Economics of Aging			Prefix change from PHE.	No other changes to course.	
Fall 2017	M	Age	560	Mental Health & Aging			Prefix change from PHE.	No other changes to course.	
Fall 2017	M	Age	562	Global Aging			Prefix change from PHE.	No other changes to course.	
Fall 2017	M	Age	563	Service Learning in Nicaragua			Prefix change from PHE.	No other changes to course.	
Fall 2017	M	Age	657	National Long-Term Care Policy			Prefix change from PHE.	No other changes to course.	
Fall 2017	M	Age	658	Perspectives on Aging			Prefix change from PHE.	No other changes to course.	
Fall 2017	M	Age	659	Economics of Aging			Prefix change from PHE.	No other changes to course.	
Fall 2017	M	Age	660	Mental Health & Aging			Prefix change from PHE.	No other changes to course.	
Fall 2017	N	Anth	460 560	Public Archaeology	4	Reviews ways archaeology contributes to the modern world as a science and a humanity through addressing issues such as community heritage, social justice, and conservation biology. Students will develop a project that shares the benefits of archaeology with the public, as part of a class or independent activity. Prerequisite: Anth 350.			
Fall 2017	M	Anth	472 572	Human Evolution and Adaptation	4	Advanced study of human population biology integrating ecology, genetics, and evolution. Evolutionary and bio-cultural explanations for genotypic and phenotypic variation, human life history patterns (reproduction, development, growth, and aging), population-specific adaptations involving climate, latitude, altitude, subsistence pattern, and diet, Darwinian medicine, health, and the distribution of infectious and chronic disease. Prerequisites: Anth 372 or consent of instructor.	Title, description, prerequisites.		
Fall 2017	D	Arch	432	History and Theory of Urban Design					
Fall 2017	M	Arch	520	Advanced Architectural Graphics and Media	4		Course number changed to Arch 523; description.	See Arch 523.	

Fall 2017	N	Arch	522	Architectural Graphics and Media	4	Studio introduction to a broad range of graphic representational techniques and media. Coursework develops skills in graphic visualization, representation and communication as used in architecture and related design fields. Concepts and conventions, from freehand to digital media, are used as a means to imagine, develop and represent design ideas		
Fall 2017	M	Arch	523	Advanced Architectural Graphics and Media	4	Studio assignments exploring a full range of graphic representational techniques and media. Exploratory drawing and modeling work addressing the visualization of ideas in architecture, including: speculative thought and concept formation; studies of light and shadow; exploration of color and texture. Also offered for undergraduate-level credit as Arch 423 and may be taken only once for credit.	Course number changed from Arch 520.	See Arch 520.
Fall 2017	M	Arch	532	History and Theory of Urban Design	4		Credits from 3 to 4.	
Fall 2017	M	Arch	535	Topics in Modernism	4		Course number changed to Arch 537; title, description, prerequisites.	See Arch 537; Arch 437 remains as it exists in catalog.
Fall 2017	N	Arch	536	Architectural History and Theory I	4	An introduction to the history and theory of architecture. A discipline in its own right and a cultural manifestation among others, architecture is seen in the horizon of human action and history. The course consists of discussions, presentations, lectures, and readings on key topics. This is the first course in a sequence of four: Arch 536, Arch 537, Arch 538, Arch 539 and must be taken in sequence.		
Fall 2017	M	Arch	537	Architectural History and Theory III	4	Seminar investigating the problem of modernity as it relates to the discipline of architecture stretching from the colonial to the industrial worlds. Emphasis placed on the critical study of cities, buildings, and landscapes, understood within the cultural and social conditions of modernity. This is the second course in a sequence of four: Arch 536, Arch 537, Arch 538, Arch 539 and must be taken in sequence. Prerequisite: Arch 536.	Course number changed from Arch 535; title, description, prerequisites.	See Arch 535; Arch 435 remains as it currently exists.
Fall 2017	N	Arch	538	Architectural History and Theory III	4	Seminar investigating the history and theory of the practice of architecture around the globe and across time periods. The course critically explores the professions and practices that make and shape the built environment and highlights a discussion of buildings, contexts, clients and users. This is the third course in a sequence of four: Arch 536, Arch 537, Arch 538, Arch 539 and must be taken in sequence. Prerequisite: Arch 537.		
Fall 2017	N	Arch	539	Architectural History and Theory IV	4	Seminar investigating the problem of post-modernity as it relates to the discipline of architecture. The course understands post-modernity in a historical horizon stretching across the globe. Emphasis placed on cities, buildings, and landscapes, each explored within the cultural and social conditions of post-modernity. This is the fourth course in a sequence of four: Arch 536, Arch 537, Arch 538, Arch 539 and must be taken in sequence. Prerequisite: Arch 538.		
Fall 2017	N	Arch	564	Architectural Technology III	4	The third in a 3-part sequence introducing design and construction technologies. Exploration of the physical properties of materials, building assemblies, and methods of construction, leading to the integration of building envelope, mechanical, thermal, and other environmental building systems. The sequence Arch 568, Arch 569, Arch 564 must be taken in that order. Prerequisite: Arch 569.		
Fall 2017	M	Arch	567	Architectural Structures	4	A workshop and seminar based course addressing the design and construction of large-scale structural systems. Investigates the innovative use of traditional and non-traditional building materials and structural detailing, exploring the potential of visually expressive structural systems through a series of working models. Prerequisite: ARch 362.	Title, description.	
Fall 2017	M	Arch	568	Architectural Technology I	4	The first in a 3-part sequence introducing design and construction technologies. Exploration of the physical properties of materials, building assemblies, and methods of construction, leading to the integration of building envelope, mechanical, thermal, and other environmental building systems. The sequence Arch 568, Arch 569, Arch 564 must be taken in that order.	Description.	
Fall 2017	M	Arch	569	Architectural Technology II	4	The second in a 3-part sequence introducing design and construction technologies. Exploration of the physical properties of materials, building assemblies, and methods of construction, leading to the integration of building envelope, mechanical, thermal, and other environmental building systems. The sequence Arch 568, Arch 569, Arch 564 must be taken in that order.	Description.	
Fall 2017	M	Arch	573	Architectural Design Transition Studio IV	6		Course number changed from Arch 583; title	See Arch 583.
Fall 2017	M	Arch	583	Architectural Design Studio X	6		Course number changed to Arch 573; title.	See Arch 573.

Fall 2017	N	ArH	106	Introduction to Visual Literacy	2	This course is intended to teach students to critically view and interpret global visual culture, from ancient to contemporary. Through critical analysis, reading, discussion, and writing, it seeks to develop the skills to engage with visual culture in ways that will empower them to participate fully in our visually-oriented contemporary society and provide them with a strong foundation for future courses in art history, art, and design.		
Fall 2017	N	ArH	329	Islamic Art: Major Themes and Periods	4	Major themes in Islamic Art and/or Architectural History. May be taught as a broad chronological survey or it may focus on a major period or topic (such as Ottoman art and/or architecture), considered in the global context. Expected preparation: ArH 204 (expected of art and art history majors). Open to non-majors. Prerequisite: Upper division standing.		
Fall 2017	M	ArH	383	Western Art in the 20th Century	4	A chronological survey of modern and postmodern art in Europe and the U.S. in the 20th century. This is the first course in a sequence of three: ArH 383: from Art Nouveau to Surrealism; ArH 384: from American Scene Painting through the rebellious sixties; ArH 385: from Conceptual art through the end of the century. Open to non-majors. Prerequisite: ARH 206 and upper-division standing.	Course number changed from ArH 491; title, description.	See ArH 491.
Fall 2017	M	ArH	384	Western Art in the 20th Century	4	A chronological survey of modern and postmodern art in Europe and the U.S. in the 20th century. This is the first course in a sequence of three: ArH 383: from Art Nouveau to Surrealism; ArH 384: from American Scene Painting through the rebellious sixties; ArH 385: from Conceptual art through the end of the century. Open to non-majors. Prerequisite: ARH 206 and upper-division standing.	Course number changed from ArH 492; title, description.	See ArH 492.
Fall 2017	M	ArH	385	Western Art in the 20th Century	4	A chronological survey of modern and postmodern art in Europe and the U.S. in the 20th century. This is the first course in a sequence of three: ArH 383: from Art Nouveau to Surrealism; ArH 384: from American Scene Painting through the rebellious sixties; ArH 385: from Conceptual art through the end of the century. Open to non-majors. Prerequisite: ARH 206 and upper-division standing.	Course number changed from ArH 493; title, description.	See ArH 493.
Fall 2017	M	ArH	398	Contemporary Art	4	Examines developments in world art in the 21st century. Historical roots of contemporary art will also be considered, e.g. the rise of identity politics, postcolonialism, and globalization. Class considers themes such as feminism, postmodernism, activism, and relational aesthetics, exemplified in artworks across all mediums. Open to non-majors. Prerequisite: ArH 206 and upper-division standing.	Course number changed from ArH 498; title, description.	See ArH 498.
Fall 2017	M	ArH	491	20th Century Art	4		Course number changed to ArH 383; title, description	See ArH 383.
Fall 2017	M	ArH	492	20th Century Art	4		Course number changed to ArH 384; title, description.	See ArH 384.
Fall 2017	M	ArH	493	20th Century Art	4		Course number changed to ArH 385; title, description.	See ArH 385.
Fall 2017	M	ArH	498	Contemporary Art I	4		Course number changed to ArH 398; title, description.	See ArH 398.
Fall 2017	D	ArH	591	20th Century Art	4			
Fall 2017	D	ArH	592	20th Century Art	4			
Fall 2017	D	ArH	593	20th Century Art	4			
Fall 2017	N	Art	101	CORE: Surface	5	Introduction to working with surface as a medium, concept, and process. The principles and elements of design will be explored in relation to the practices of two-dimensional design, typography, and color theory. No prerequisites. Open to non-majors.		
Fall 2017	N	Art	102	CORE: Space	5	Introduction to space as a medium, concept, and process framed by the principles of gravity/weight, compression/expansion, torsion/tension, presence/absence, and process/product. Lectures, readings, demonstrations and hands-on projects help students identify and understand space-based principles in art and design. No prerequisites. Open to non-majors.		
Fall 2017	N	Art	103	CORE: Time	5	Introduction to working with Time as a medium, concept, and process. Within this, the principles of duration, intensity, and rhythm are particularly significant and frame narrative and storytelling development. This course involves lectures, readings, demonstrations and hands-on exercises that help students identify time-based principles in art and design. Individual and group projects support these concepts in practice.		
Fall 2017	N	Art	104	CORE: Digital Tools	2	Focus on digital media as a creative tool for artists and designers. Introduction to various tools and technologies relating to graphics, audio, video, and 3D through demos and lectures. Introduction to a selection artists and designers who work with these tools in practice and industry. Best practices in file management, and workflow will also be discussed. No prerequisites.		

Fall 2017	N	Art	105	CORE: Ideation	2	One of the biggest challenges for creative people is taking an idea envisioned in the mind and turning it into reality. Ideation introduces students to techniques for bringing ideas to life. In this course, students will be introduced to a variety of techniques and concepts that focus on the generation, development and communication of new ideas.			
Fall 2017	D	Art	115	Foundation Studio I: 2-D Design	4				
Fall 2017	D	Art	117	Foundation Studio II: 3-D Design	4				
Fall 2017	M	Art	118	Introduction to Type and Communication Design	4		Course number changed to Art 121; description, prerequisites.	See Art 121.	
Fall 2017	D	Art	119	Foundation Studio III: Digital Media/Time Design	4				
Fall 2017	M	Art	121	Introduction to Type and Communication Design	4	Introduction to typography and communication design. Methods, strategies and processes for thinking creatively are investigated through execution in both typography and communication design. Emphasis is placed on projects that address design principles, materials and tools. Prerequisites: Art 101.	Course number changed from Art 118; description, prerequisites.	See Art 118.	
Fall 2017	D	Art	182	Idea and Form	4				
Fall 2017	M	Art	203	Making and Meaning	4		Course number changed to Art 303; description, prerequisite.	See Art 303.	
Fall 2017	M	Art	281	Introduction to Painting	4	Course introduces basic principles of painting by exploring the use of color, form, composition and a variety of surface applications. Course assignments involve direct observational approaches presented through a variety of traditional and modern painting styles and techniques. Prerequisites: ART 101 and ART 131. Open to non-majors with instructor consent.	Title, description, prerequisites.		
Fall 2017	M	Art	282	Introductory Level Painting Topics	4	Introductory level topics in painting is based on various subjects of inquiry. Focusing on a specific material exploration and/or application, approaches will vary according to instructor. The course should include subtitles highlighting the selected topic. Prerequisites: Art 281 or instructor's consent.	Title, description, prerequisites.		
Fall 2017	M	Art	291	Introduction to Sculpture	4	Introduction to the basic fundamentals to sculpture. Students gain command of specific sculptural processes and materials while engaging in assignments that develop ideation and critical thinking. Maximum 4 credits. Prerequisite: Art 102 and Art 131. Open to non-majors with instructor consent.	Title, description, prerequisites.		
Fall 2017	M	Art	292	Topics in Basic Sculpture	4	Introduction to specific topics in sculpture based on various subjects of inquiry. Focus on a specific theme, media, and/or process while engaging in assignments that develop ideation and critical thinking. Prerequisites: Art 291 or consent of instructor.	Title, description, prerequisites.	Course is now repeatable.	
Fall 2017	M	Art	303	Making and Meaning	4	Explores the relationship of material, method and process in the construction of meaning in art. Students experiment with interdisciplinary research methods to generate projects reflecting current topics of interest. Required for all transfer BFA students unless waived by an advisor. Open to non-BFA majors with instructor's consent. Prerequisite: Required for all transfer BFA students unless waived by an advisor.	Course number changed from Art 203; description, prerequisite.	See Art 203.	
Fall 2017	M	Art	315	Professional Development	4	This class focuses on topics related to professional practices and preparation to enter the field of graphic design. Some professional practices covered are: Internship preparation, effective written and verbal presentation, contracts and copyrights, team dynamics, client meetings, and project management. Prerequisites: Passing score for the Sophomore Portfolio Review. Prerequisites: Formal acceptance into the third year by Sophomore Portfolio Review and upper-division standing.	Course number changed from Art 469; description, prerequisites.	See Art 469.	
Fall 2017	M	Art	321	Communication Design Studio IV	6	This is the second course in a sequence of two: ART 320 and 321. The sequence focuses on concept development and solutions for communication design problems. History, theory, critical readings, critiques, and written assignments support visual design exploration. Art 321: Complex problems, focus on public communication, branding, and information design.	Description; credit hours from 4 to 6.		
Fall 2017	N	Art	336	BFA: Research and Proposal	4	Required third year seminar course offered spring term for accepted BFA students. Introduction to both contemporary research methodologies and final project proposal development. Emphasis is placed on developing a body of work and preparing proposals for the final year BFA Project. Prerequisites: Formal departmental admission into the BFA program and Art 203 or Art 303 or with instructor's consent.			
Fall 2017	N	Art	339	BFA Vertical Lab I: Collaboration and Presentation Strategies	4	First of a two-term sequence that introduces artists' research methods and explores a range of strategies and platforms for presenting art work in public settings. Students collaborate on theme-based projects that culminate in public presentations. Coursework includes lectures, demonstrations, studio production and field trips. Required for BFA. Prerequisites: Departmental admission into the BFA program and Art 203 or Art 303 or with instructor's consent.			

Fall 2017	M	Art	373	Intermediate Sculpture	4	Intermediate-level course. Students work in a variety of media with a focus on contemporary sculptural practices. Assignments emphasize ideation and critical thinking in preparation for developing an independent, cohesive body of work. Maximum 4 credits. Prerequisites: Art 291 or consent of instructor.	Title, description, prerequisites.		
Fall 2017	M	Art	374	Intermediate Sculpture: Topics	4	Intermediate-level topics in sculpture based on various subjects of inquiry. Focus on a specific theme, media, and/or process. Assignments emphasize ideation and critical thinking in preparation for developing an independent, cohesive body of work. Prerequisites: Art 373 or consent of instructor.	Title, description, prerequisites.	Course is now repeatable.	
Fall 2017	M	Art	392	Intermediate Painting	4	Using traditional and contemporary technical processes and conceptual approaches, students start developing a personal vocabulary with emphasis on the relationship of form and content, while investigating a variety of ways of researching and applying methods towards developing a body of work. Prerequisites: Art 282 or consent of instructor.	Title, description, prerequisites.		
Fall 2017	M	Art	393	Intermediate Painting Topics	4	Intermediate level special topics in painting based on various subjects of inquiry. Focusing on a specific theme, material explorations and applications, and/ or specific content, approaches will vary according to instructor. The course should include subtitles highlighting the selected topic. Prerequisites: Art 392 or instructor's consent.	Title, description, prerequisites.		
Fall 2017	D	Art	436 536	Painting: Topical Issues	4				
Fall 2017	D	Art	437 537	Painting: Topical Issues	4				
Fall 2017	N	Art	439	BFA Vertical Lab II: Collaboration and Presentation Strategies	4	Second of a two-term sequence that introduces research methods, strategies and project management skills for publicly presenting artwork. Students collaborate on theme-based projects that culminate in public display. Coursework includes lectures, demonstrations, studio production and field trips. Required for BFA. Prerequisites: Departmental admission to the Art Practice BFA, Art 203 or Art 303 and Art 339 or consent of instructor.			
Fall 2017	M	Art	469	Communications Design Internship			Course number changed to Art 315; title, description, prerequisites.	See Art 315.	
Fall 2017	M	Art	470	Design Thesis I	4	Students pursue their own sustained, integrated body of work that demonstrates refinement of visual and verbal communication ideas. This course emphasizes independent working practices along with the role of theory and criticism. This is part one of a two course sequence (ART 470 and 471). Prerequisites: Art 320, 321 and 354.	Title, description.		
Fall 2017	M	Art	471	Design Thesis II	4	Students pursue their own sustained, integrated body of work that demonstrates refinement of visual and verbal communication ideas. This course emphasizes independent working practices along with the role of theory and criticism.	Title, description.		
Fall 2017	M	Art	472	Communication Design Portfolio	6	Development of a design portfolio that presents the creative, conceptual, strategic and technical abilities of the designer. Independent exploration is expected, as well as consistent and professional written and verbal presentation. Emphasis is placed on professional skills required in the marketplace. Required course for all majors in design. Prerequisites: Senior status in the major and Art 321, Art 341, Art 354, and Art 470.	Description; credits from 4 to 6.		
Fall 2017	M	Art	490 590	Advanced Painting	4	Through guided individual assistance, this course concentrates on working methods of research and execution towards a specifically proposed project. Research, idea generation and production are emphasized within the context of a body of work, related to contemporary painting practices and theories. Prerequisites: Art 393 or MFA/graduate status or consent of instructor.	Title, description, prerequisites.		
Fall 2017	M	Art	491 591	Advanced Painting: Topics	4	Advanced level special topics in painting based on various subjects of inquiry. Focusing on a specific theme, material explorations and applications, and/or specific content, approaches will vary according to instructor. The course should include subtitles highlighting the selected topic. Prerequisites: Art 490 or MFA/graduate status or instructor's consent.	Title, description, prerequisites.		
Fall 2017	M	Art	494 594	Advanced Sculpture	4	Advanced-level sculpture course which focuses on conceptual development, research, and production as an advanced level sculpture student. Students develop an independent, cohesive body of work within a historical and theoretical context. Maximum 4 credits. Prerequisites: Art 373 and Art 374 or instructor's consent. Graduate level standing required to enroll in Art 594.	Title, description, prerequisites.		
Fall 2017	M	Art	495 595	Advanced Sculpture: Topics	4		Title, description, prerequisites.		
Fall 2017	N	Art	496	BFA Project I	4	First in a sequence of two courses in studio production and exhibition preparation in which students produce a body of work for a culminating presentation. Focus on studio production, research, editing, documentation, publication/catalog design and written statements. Required for all BFA students. Prerequisites: Art 336 and Art 439.			

Fall 2017	M	Art	498	BFA Project II		Second in a sequence of two directed study courses in studio production and exhibition preparation in which students complete and select work for a culminating Project Exhibition. Course will focus on completing projects, work selection, exhibition preparation and installation of Project. Required for all BFA students. Prerequisites: Art 496. Co-requisite: Art 499.	Title, description, prerequisites.		
Fall 2017	N	Art	499	BFA Oral Review	2	Course prepares BFA students for the final oral review of their individual culminating projects. Format includes individual research, group critique, practice presentations, written reflections and final formal faculty-reviewed student presentations. Required for all BFA students; prerequisites: Art 336 and Art 496; co-requisite: Art 498.			
Fall 2017	M	BA	525	Capstone Consulting Project	2	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. This course requires two consecutive terms to complete. Prerequisites: BA 529, Mgmt 511, Mgmt 516, Fin 513, Mktg 511, Mktg 512, BA 524.	Description, credit hours from 2-6 to 2, prerequisites.		
Fall 2017	M	Bi	211	Principles of Biology: Molecular Cell Biology & Genetics	4	Study of the basic principles of living organisms. This course will study the molecular and cellular underpinnings of living organisms. Specific topics include biochemistry, cell biology, molecular biology, biotechnology, microbiology, and genetics. Four hours lecture. Co-requisite: Bi 214 Laboratory. Prerequisite: Ch 221 and Ch 227, or concurrent enrollment in Ch 221 and Ch 227.	Title, description.		
Fall 2017	M	Bi	212	Principles of Biology: Development, Evolution and Ecology	4	Study of the basic principles of living organisms. This course focuses on the development, evolution and ecology of living organisms. Specific topics include plant and animal development, natural selection, speciation, form & function of organisms, biodiversity, and the introduction of major phyla. Four hours lecture. Co-requisite: Bi 215.	Title, description.		
Fall 2017	M	Bi	213	Principles of Biology: Organisms, Biodiversity and Conservation	4	Study of the basic principles of living organisms. This course focuses how biotic and abiotic factors impact living organisms and the physiological underpinnings that allow organisms to survive. Specific topics include ecology, physiology, organismal systems (water balance, gas exchange, nervous, circulatory, endocrine), community and population ecology, biodiversity and conservation. Four lecture hours. Co-requisite: Bi 216.	Title, description.		
Fall 2017	M	Bi	337	Cell Biology Laboratory	1		Credits from 2 to 1.		
Fall 2017	D	Bi	372	Nanotechnology, Society, and Sustainability					
Fall 2017	M	Bi	417 517	Mammalian Physiology	4	Physiology of the mammalian cardiovascular, respiratory, renal and digestive systems with emphasis on homeostatic control and integration of these systems in normal and pathophysiological states. Prerequisite: Completion of Bi 251, Bi 252, Bi 253 with a C- or above in each section.	Course description; prerequisites		
Fall 2017	M	BSt	202	Introduction to Black Studies	4	Overview of African, African American, Afro-Latin@ and Caribbean studies and the historical and theoretical underpinnings of black studies and inter – and multidisciplinary fields of study.	Description.		
Fall 2017	M	BSt	203	African American History I: Slavery to the Harlem Renaissance	4	Historical foundations of African Americans in the New World focusing on significant events and eras including slavery, the Civil War, Reconstruction, and the Harlem Renaissance.	Title, description.		
Fall 2017	M	BSt	204	African American History II: From the Depression Era to Civil Rights	4	African Americans in the New World focusing on significant events and eras including the Great Depression, Black Migration, and the burgeoning civil rights era.	Title, description.		
Fall 2017	M	BSt	206	Caribbean Studies	4	Interdisciplinary examination of the historical and cultural experience of the Caribbean and Afro-Latin@. Special attention will be given to issues in the creation of multicultural society, such as the dynamics of resistance and the interplay of cultural identity and political domination.	Title, description.		
Fall 2017	M	BSt	207	Race, Class, and Gender	4	Analysis of the intersections of the socially constructed categories of race, class, and gender in African diasporic societies.	Title, description.		
Fall 2017	M	BSt	214	Race and Ethnic Relations	4	Addresses the origins and manifestations of the socio-historical concept of race. Critical theory approach is used to analyze the manner in which race has been interpreted and its influence on the socio-political relations between races and ethnic groupings. Emphasis on topical race issues.	Title, description.		
Fall 2017	M	BSt	261	The African American Economic Experience	4	African Americans and the economic system. Overview of slave and peonage systems, sharecropping, occupational and employment discrimination, economic boycotts, welfare system, and the underground economy.	Description.		
Fall 2017	M	BSt	302	African American Experience in the 20th Century	4	Survey course on the African American experience in the 20th and 21st centuries, including social conditions, family, economics, legal cases, race relations, arts.	Description.		

Fall 2017	N	BSt	304	The Civil Rights Movement	4	Covers the history of the Civil Rights Movement from its early days during WWII through the end of the 1960s. Explores the social, political, economic, and legal challenges, movement leaders, organizations, movement resources, key movement events, and the role of the media and U.S. government. Prerequisites: BSt 202 or BSt 203.			
Fall 2017	N	BSt	305	African History Before 1800	4	Surveys the history of the African continent from the period of European exploration to the eve of colonialism. Examines impact of the European presence on African institutions and trade, and the relative importance of the environment, technology, and indigenous social systems on the transformation of African society prior to 1800. Same course as Hst 312 and may be taken only once for credit. Prerequisite: BSt 202 or BSt 211.	Description, prerequisite.		
Fall 2017	N	BSt	306	African History 1800-Present	4	Survey the history of the African continent from 1800 to the present with an emphasis on the colonial period, independence, and post-independence. Same course as Hst 313 and may be taken only once for credit. Prerequisite: BSt 211.m	Description.		
Fall 2017	M	BSt	316	Issues in African American Education	4	The U.S. education systems and African-Americans. An historical overview and contemporary analysis of legal issues related to education, including public and private education, community control of schools, citizen involvement, alternative education forms, school desegregation and re-segregation.	Course number changed from BSt 416.	See BSt 416 516.	
Fall 2017	M	BSt	319	Traditional Cultures of Africa	4	Examines features of African cultures, including environment and people, oral traditions, time and seasons, naming and numbering systems, language and communication systems, religious, political and legal institutions, music, dance, and family.	Description.		
Fall 2017	M	BSt	325	Race and Ethnicity in Latin America	4	African descent in Latin America using theoretical and empirical research on race and ethnicity in the region. Regional and national variations concerning racial and ethnic identity and the intersection of race/ethnicity, gender and social class and an exploration of how Blackness is contested in the media.	Description.		
Fall 2017	M	BSt	326	Cuba, Dominican Republic, Puerto Rico	4	History, culture, politics, geography, gender relations, race, ethnicity, and spirituality of the people of the Spanish speaking Caribbean—Cuba, the Dominican Republic, and Puerto Rico. Focus on Indigenous people of the Caribbean, impact of European colonization on the region, political resistance, nation building and creative identity-making.	Description.		
Fall 2017	M	BSt	342	Black Feminism/Womanism	4	Historical evolution of black feminist theory from slave narratives to contemporary manifestations of black feminism including hip hop feminism. Feminist resistance in the context of race and gender. Analysis of the pluralism within black feminism including black lesbian feminism, womanist theology, and radical black subjectivity.	Description.		
Fall 2017	M	BSt	357	Caribbean Spirituality and Resistance	4	Historical and contemporary diversity of Afro- Creole spiritual/ religious practices in the Caribbean. Rituals and beliefs of Indigenous Taino and African origin, Afro Cuban religious systems, Dominican worldview and spirit practice, Rastafari, Obeah, Vodou, and Spiritism. Conceptions of spirituality in syncretic, creolized spirit systems in colonized, transnational, globalized Afro-Caribbean society.	Description.		
Fall 2017	N	BSt	359	The African Diaspora in Europe: Social, cultural and historical exploration of the African Diaspora in Europe from antiquity to the present.	4	The primary focus of this course is to understand and explore what it means to be a person and/or community of African descent living in Europe. The methodology will be based on a social, cultural and historical analysis.			
Fall 2017	M	BSt	362	African Prehistory	4	Methods, sources of evidence, and the results of the study of prehistoric cultures of Africa from the earliest traces until the first written records; it includes human origins (physical and cultural evolution), the earliest civilization, peopling of Africa, migrations, earliest settlements, origins of agriculture and metallurgy. This is the same course as Anth 362 and may be taken only once for credit. Crosslisted as: Anth 362.	Removes prerequisites.		
Fall 2017	M	BSt	372	Sociology of Africa: Post-Colonial Studies of Africa	4	Study of the social, political, and economic dimensions of imperialism in twentieth century Africa from the perspective of post-colonial studies. This course is the same as Intl 372U and may be taken only once for credit.	Description.		
Fall 2017	M	BSt	377	Voudon, Rasta and Islam in the African Diaspora	4	Historical and cultural background on how Voudun, Islam, and Rastafarianism became major ingredients in political, religious, and social movements in the African Diaspora. Cultural, political and economic implications and impacts are discussed.	Description.		
Fall 2017	M	BSt	406	Overseas Experience	4	Community-based learning in an international context through immersion in departmental programs in Africa and/or the Caribbean. Travel programs provide students with rich, multicultural environments in which to learn and serve international communities. Application for admission to the overseas programs is required.	Description.		



Fall 2017	M	BSt	411 511	African American History Seminar	4	In-depth analysis of critical topics and issues in African American history. The content of the course is topical rather than chronological and the approach will emphasize specific periods, individuals, or relevant developments for a concentrated treatment in a seminar environment. Prerequisites: BSt 202 or BSt 204 and junior standing.	Description, prerequisite.		
Fall 2017	M	BSt	412 512	Oregon African American History	4	Examination of the black experience in Oregon history. Topics include the slavery controversy in early Oregon development, contributions of blacks to the growth of the state, black migration during World War II, the Vanport flood, and various legislative actions related to black status in Oregon. Prerequisites: BSt 202 or BSt 204; junior or senior standing.	Description, prerequisite.		
Fall 2017	M	BSt	413 513	Slavery	4	An examination of the role of slavery in establishing and reinforcing the status and position of the black population in the U.S. and the Caribbean, including physical and psychological impacts, racial classifications, and colorism. Comparative analysis of the numerous forms of slave systems and the impact of slave rebellions. Prerequisites: BSt 202, BSt 203, BSt 205 and BSt 214.	Description, prerequisite.		
Fall 2017	M	BSt	414	Racism	4	Survey of the social-psychological, pseudo-scientific, and biological literature and their impact on individual and cultural forms of racism in America. Utilization of rationalizations and the processes and machinery of oppression as constructed by white European and American governments to control and exploit the resources of non-white peoples will be examined.	Description, prerequisite; drop BSt 514.		
Fall 2017	M	BSt	416 516	African American Urban Education Problems	4		Course number changed to BSt 316; title and description; drop BSt 516.	See BSt 316	
Fall 2017	M	BSt	421 521	African American Writers	4	Examination of significant African American literary figures. A particular author or literary period of writing is identified, read, analyzed, and discussed. Major works and history of the period are included with special consideration given to the relationships between the topic of focus and the larger spheres of writing. Prerequisite: BSt 221.	Description, prerequisite.		
Fall 2017	D	BSt	423 523	African Fiction	4				
Fall 2017	D	BSt	424 524	African American/African Culture in Cinema	4				
Fall 2017	M	BSt	425 525	Black Cinema: the 1970s	4	Examination of the treatment of Black themes, issues and characterization during the decade of the 1970s in the cinema industry. Particular attention on the genre of the Blaxploitation film as an industry response to the rapidly shifting social and racial dynamics of American culture as the Civil Rights era concluded.	Description.		
Fall 2017	D	BSt	427 527	African American Films and Film Makers	4				
Fall 2017	M	BSt	430 530	Black Political Thought	4	Theories of Black nationalism, including the political thought of Martin Delany, Aimé Césaire, Frantz Fanon, Albert Memmi, Booker T. Washington, W.E.B. DuBois, Malcolm X, Marcus Garvey, and others. Also offered for graduate-level credit as BSt 530 and may be taken only once for credit. Prerequisite: upper-division standing.	Title, description, prerequisites.		
Fall 2017	D	BSt	471	Understanding the International Experience					
Fall 2017	M	BSt	484 584	African American Community Development	4	Study of community development and applicability to African American communities. Topics include community development, community organization, ghettos as colonies, citizen participation, change agents, planning, and social change implications. Prerequisite: BSt 202 or BSt 204; junior or senior standing.	Description, prerequisite.		
Fall 2017	D	BSt	514	Racism	4			See BSt 414; removed 514 dual-level designation.	
Fall 2017	N	CCJ	545 645	Advanced Topics in Research Methods	4	Advanced training in select research methodologies practiced in criminology and criminal justice. Topics may include, but are not limited to; survey methods, field methods, advanced statistics, advanced crime analysis, content and document analysis, evaluation research, secondary data analysis, and interviews. Topics will vary yearly. May be repeated once. Prerequisites: CCJ 520 and CCJ 530.			
Fall 2017	M	CE	474 574	Unit Operations of Environmental Engineering	4	Unit operations of water and wastewater treatment; pretreatment; sedimentation, filtration, aeration, disinfection, sludge treatment and disposal, advanced waste-water treatment processes. Prerequisite: Ch 223 or CE 371 or CE 487, or graduate standing.	Prerequisites.		
Fall 2017	M	CE	485 585	Environmental Cleanup and Restoration	4	Survey of procedures for evaluating risks posed by hazardous waste sites and the cleanup steps that lead to an acceptable restoration of such sites. Topics include U.S. environmental law and regulation, site investigations, risk assessment, and a focus on actual case studies, many in Portland and the Pacific Northwest. Prerequisite: Junior or graduate standing.	Prerequisites.		

Fall 2017	N	CFS	310	Critical Histories in CYFS: Gender/Race/Class	4	This course provides a space for critical reflection on the nature of power in professions serving children, youth, and families. Students will explore historical and contemporary patterns of feminization of these professions and the implications, including the social and economic de-valuation of this work and institutions as gendered settings. Students will also critically consider the racialized history of this work and resistance by communities served by these professions.			
Fall 2017	M	CFS	312	Families in Lifecourse Perspective	4		Title.		
Fall 2017	M	CFS	381	Families, Stress, and Change	4		Course number changed from CFS 481; title.	See CFS 481.	
Fall 2017	M	CFS	391	Family Theories	4	Theoretical and conceptual foundations of working with children, youth, and families in professional settings. Historical, socio-political contexts of significant theories and their relevance for professional application.	Course number changed from CFS 491.	See CFS 491 591.	
Fall 2017	M	CFS	480	Societal Influences on Professional Practice	4		Course number changed to CFS 487; title.	See CFS 487.	
Fall 2017	M	CFS	481	Family Health Issues	4		Course number changed to CFS 381; title.	See CFS 381.	
Fall 2017	M	CFS	487	Examining Bias and Belief	4		Course number changed from CFS 487; title.	See CFS 480.	
Fall 2017	M	CFS	488	Structural Oppression	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. Prerequisite: CFS 487.	Title, prerequisites.		
Fall 2017	N	CFS	489	Activism for Social Change	4	This course prepares students for activism in professional settings serving children, youth, and families. Building on CFS 487 and CFS 488, students will study social change and activism. They will research a social injustice, conceptualize and carry out a social change action, and reflect on lessons learned for their activism. Prerequisite: CFS 488.			
Fall 2017	M	CFS	491 591	Conceptual Foundations in Child and Family Studies	4		Course number changed to CFS 391; title; drop 596	See CFS 391.	
Fall 2017	M	CFS	492	Family Law and Policy	4		Title.		
Fall 2017	N	CFS	493	Professional Self: Ways of Knowing	4	This course is the first in a series of four courses that introduces students to understanding interdisciplinary perspectives and the ways in which personal development, professional identity, and professional action contribute to our developing professional self. This course will examine "ways of knowing" and the construction of knowledge in our interdisciplinary professional fields. Students will critically reflect on the "ways of knowing" and develop their research literacy. Emphasis will be placed on reflection, personal ethics, self-care, interdisciplinary career paths, and scholarly foundations. Prerequisite: Admittance to Child & Family Studies. Prerequisite: Admittance to CYFS major.			
Fall 2017	M	CFS	494	Professional Self: Critical Thinking	2		Title, credits from 3 to 2, prerequisites, grading option.		
Fall 2017	M	CFS	495	Professional Self: Identity	2		Title, credits from 1 to 2.		
Fall 2017	M	CFS	496	Professional Self: Integration	2		Title.		
Fall 2017	M	Ch	408	Workshop Leader	1-3	Optional peer-led problem-solving sessions designed to promote the success of students in Chemistry. Corequisite: corresponding lecture course.	Description; grading option.		
Fall 2017	N	Ch	496 596	Synthetic Biology	4	Advanced seminar-style class surveying the applied interdisciplinary field of synthetic biology. Topics on engineering and design of new microbial cells include: minimal gene sets, large scale genome assembly, manipulation of metabolic pathways, and alteration of the genetic code. Required preparation: Organic Chemistry AND either Biochemistry or Molecular Biology. Prerequisite: Ch 335. Grade of B- or better in Ch 491 or Ch 350 or Bi 334.			Dual-level course.
Fall 2017	N	CI	455 555	LGBTQ Advocacy in Pre-K-12 Classrooms	1-2	Provides students with knowledge and skills to facilitate increased understanding of others and self around issues of identity, context, sexual orientation, and gender. Using constructivist approaches, participants develop a personal framework for encountering and making sense of gender and sexual identity as they manifest in PRE-K-12 schools. Prerequisite: upper-division standing.			

Fall 2017	N	CI	469 569	Leading in ECE Programs	4	Develop a strong sense of early childhood leadership identity through multiple lenses of directing, teamwork, and/or coordinating classroom pedagogy and practice. Explore leadership roles in schools for young children including: teachers, supervisors, children, and parents. Collaborative and relational dimensions of the early childhood profession are also explored. Prerequisites: Undergraduate early childhood education coursework or teaching experience with young children or instructor's permission.			
Fall 2017	M	Comm	200	Principles of Communication	4		Course number changed to Comm 300; description.	See Comm 300.	
Fall 2017	M	Comm	300	Principles of Communication	4	Introduces the skills and concepts students need for literacy in communication and provides a broad introduction to the perspectives on communication that will be encountered in upper-division Communication courses. Prerequisite for Comm 311, Comm 316, and Comm 326. Expected preparation: Writing course; Comm 100 or equivalent.	Course number changed from Comm 300; description.	See Comm 200.	
Fall 2017	M	Comm	311	Research Methods in Communication	4	Introduction to the assumptions and methods of research in the study of human communication. Students will learn to design and conduct practical research projects and improve their ability to understand, evaluate, and use reports of research and scholarship encountered in future coursework and in everyday life. Prerequisites: Comm 300.	Description, prerequisite.		
Fall 2017	M	Comm	316	Communication, Individuals and Discourse	4	Extends the discussion of empirical approaches to communication introduced in Comm 300. Introduces relevant social science theories of communication including theories based on cognitive and social psychological approaches that depict communication as a process. Comm 316 is a requirement for the major and a recommended prerequisite for 400-level communication courses. Prerequisites: Comm 300.	Description, prerequisite.		
Fall 2017	M	Comm	326	Communication, Society and Culture	4	Develops the idea that communicative action is theoretically driven as introduced in Comm 300; continues the discussion of interpretive, constitutive, social-cultural, and critical theories of communication. Comm 326 is a requirement for the major and a recommended prerequisite for 400-level communication courses. Prerequisites: Comm 300.	Description, prerequisite.		
Fall 2017	N	CR	313	Environmental Conflict Resolution	4	Critically examines conflict resolution principles and practices as applied to environmental conflicts. Explores the conflict between the duty to protect the environment against promoting economic well-being for humanity. Examines conflict resolution theory and practice in terms of case studies of environmental conflict, locally, nationally, and globally.			
Fall 2017	M	CS	545	Machine Learning	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 261 or Mth 343; CS 202.	Prerequisites.		
Fall 2017	D	CS	595 695	Network Routing	3				
Fall 2017	D	Dane	101, 102, 103	First-Year Danish	4,4,4				
Fall 2017	D	Dane	201, 202, 203	Second-Year Danish	4,4,4				
Fall 2017	N	Ec	325	Latin American Economics	4	By means of discussions, presentations, and lectures this course tackles common themes that characterize Latin America: economic growth barriers, the curse of commodities, import substitution industrialization, trade policy, exchange rate policy, public debt management, macroeconomic stability, and the poverty and inequality vicious cycle.			
Fall 2017	N	ECE	211	Introduction to Design Processes	1	Introduction to design for electrical and computer engineers. Preparation for a team project in ECE 212. Discussion of design processes, needs, requirements, functional decomposition, testing and project management. Prerequisites: ECE 103 and ECE 172.			
Fall 2017	N	ECE	212	Introduction to Project Development	2	Continuation of ECE 211. Teams of students work on design projects that integrate electrical and computer engineering skills, knowledge and concepts gained up to this point. Application of structured design methodology to an authentic engineering problem. Prerequisite: ECE 211.			
Fall 2017	M	ECE	311	Feedback and Control	4		Course number changed to ECE 317; title, description, prerequisites.	See ECE 317.	
Fall 2017	D	ECE	312	Fourier Analysis	4				

Fall 2017	N	ECE	315	Signals and Systems I	4	Fundamentals of signals and systems including fundamental signals, basic system properties, linear time invariant systems, Fourier series, Fourier transforms, and filters. This is the first course in a sequence of two: ECE 315 and ECE 316 and must be taken in sequence. Prerequisites: ECE 223, Mth 256, Mth 253.			
Fall 2017	N	ECE	316	Signals and Systems II	4	Introduction to fundamentals of communications and discrete-time system analysis including sampling, modulation, multiplexing, and the z-transform. This is the second course in a sequence of two: ECE 315 and ECE 316 and must be taken in sequence. Prerequisite: ECE 315.			
Fall 2017	M	ECE	317	Signals and Systems III	4	Control of continuous single-input/single-output linear systems using classical feedback techniques. Time and frequency domain analysis. Design in the s-plane and frequency domain. Use of time and frequency system identification techniques for developing plant models. Design of feedback compensators for steady-state error reduction, disturbance rejection, transient stability, and dynamic response. Prerequisite: ECE 316.	Course number changed from ECE 311; title, description, prerequisite.	See ECE 311.	
Fall 2017	M	ECE	347	Power Systems I			Course number changed to EE 347.	See EE 347.	
Fall 2017	M	ECE	348	Power Systems II			Course number changed to EE 348.	See EE 348.	
Fall 2017	N	ECE	361	Computer System Organization	4	Basic concepts of modern computer systems, computer programming, and data structures. Topics include system organization, programming and debugging tools, project and software management tools, C, C++, scripting languages, performance benchmarking, data structures, lists. Prerequisites: ECE 102 and ECE 103, or CS 161 and CS 162 or equivalent.			
Fall 2017	N	ECE	362	Embedded Operating Systems	4	Introduction to the principles of modern operating system design. Topics include: introduction to basic operating system concepts, processes, inter-process communication and concurrent programming, scheduling, memory management, file systems, device management, introductions to protection & security, RTOS structure and operation. Linux will be used for class examples and lab assignments. Prerequisite: ECE 361.			
Fall 2017	M	ECE	411	Industry Design Processes	2	Prepare students for ECE 412 and ECE 413 Senior Project Development I and II. Topics include: design documentation standards; building and managing effective teams; product development steps; developing and presenting project proposals; design processes; project scheduling and management; design to meet desired needs. Lectures and a team-based term project.	Description, credits from 4 to 2.		
Fall 2017	M	ECE	420 520	Analytical Methods for Power Systems	4		Course number changed to EE 430/530; prerequisites.	See EE 430/ 530.	
Fall 2017	N	ECE	424	Engineering Professional Practice	2	Prepare graduates for careers in electrical and computer engineering. Topics include ethical reasoning and considerations, strategies for job acquisition, career planning, certification and licensure, approaches to lifelong learning, and means of maintaining awareness of contemporary global and local societal issues. Prerequisite: ECE 411.			
Fall 2017	M	ECE	448 548	Power System Protection	4		Course number changed to EE 431/531; prerequisites	See EE 431/531.	
Fall 2017	D	ECE	449 549	Power System Design	4				
Fall 2017	D	ECE	537	Advanced Topics in Power Systems	4				
Fall 2017	M	ECE	541	Power Operations Fundamentals I	4		Course number changed to EE 534; prerequisites	See EE 534.	
Fall 2017	M	ECE	542	Power Operations Fundamentals II	4		Course number changed to EE 535; prerequisites	See EE 535.	
Fall 2017	D	ECE	547	Energy Economics	4				
Fall 2017	M	ECE	550	Power System Stability	4		Course number changed to EE 536; prerequisites	See EE 536.	
Fall 2017	M	ECE	580	Advanced Power Systems Protection	4		Course number changed to EE 537; prerequisites.	See EE 537.	
Fall 2017	D	ECE	641	Power System Planning	4				
Fall 2017	M	EE	347	Power Systems I			Course number changed from ECE 347.	See ECE 347.	
Fall 2017	M	EE	348	Power Systems II			Course number changed from ECE 348.	See ECE 348.	

Fall 2017	M	EE	430 530	Analytical Methods for Power Systems	4	Power systems modeling. Admittance matrixes. Load flow computational methods; Gauss-Seidel, Newton-Raphson, DC, fast-decoupled power flow. Sparsity techniques. Optimal power flow algorithms. Symmetrical components, sequence networks. Symmetric, unsymmetric faults. Space vector transformations. Transient operation of transmission lines. Voltage, frequency stability. State estimation. Transient stability. Power system analysis emphasizing non-dispatchable resources. Prerequisites: EE 347 or permission of instructor.	Course number changed from ECE 420/520; prerequisites	See ECE 420/520.	
Fall 2017	M	EE	431 531	Power System Protection	4	Relaying concepts, per unit calculations & symmetrical components, phasors, polarity and direction sensing, current/voltage transformers, protection fundamentals & basic design principles, system grounding principles, device protection, directional comparison, blocking & blocking pilot protection, line differential & phase comparison pilot protection, out of step tripping and blocking. Weekly Lab. Prerequisites: EE 430/530 or permission of instructor.	Course number changed from ECE 448/548; prerequisites.	See ECE 448/548.	
Fall 2017	N	EE	527	Sensor Array Processing	4	Overview of applications in acoustics and electromagnetism that benefit from sensor array processing. Topics include array geometry design, performance measures, source tracking, passive and active approaches, wave propagation modeling, beamforming, noise modeling, and adaptive methods. Prerequisite: ECE 332 or equivalent; EE 318 or equivalent.			
Fall 2017	N	EE	528	State Space Tracking	4	Modern approaches to estimating the state of linear and nonlinear systems. Topics include linear systems theory, the Kalman filter, the extended Kalman filter, unscented Kalman filter, and the particle filter. Designed to give a solid introduction and fundamental understanding of the advantages, limitations, and tradeoffs for each of these methods. Prerequisite: EE 521.			
Fall 2017	N	EE	529	Signal Processing Practicum	4	Topics include scholarship skills, framing of signal processing problems, and algorithm verification. Students design, implement, and verify an engineering solution for a signal processing application. This course is intended to be taken after students have completed most of their other graduate coursework in signal processing. Prerequisites: EE 519, EE 522, and permission of instructor.			
Fall 2017	M	EE	534	Power Operations Fundamentals I	4	Power system operations theory and practice; fundamental concepts and applications. Balancing authority operations concepts concerning regulation and applied regulatory constraints, power operations trading markets, smart-grid systems, transmission and generation components, and cyber security. Prerequisites: EE 347 or instructor permission.	Course number changed from ECE 541; prerequisites	See ECE 541.	
Fall 2017	M	EE	535	Power Operations Fundamentals II	4	Power system operations theory and practice; advanced concepts and applications. Emphasis on understanding the electric industry as a complex system; operations concepts for balancing authority utilities; regulatory constraints, interoperability and impacts on operations; project management of smart-grid systems; design of programmatic, distribution and utility-scale renewable components; utility cyber security. Prerequisite: EE 534 or instructor permission.	Course number changed from ECE 542; prerequisites.	See ECE 542.	
Fall 2017	M	EE	536	Power System Stability	4	Electromechanical dynamic modeling, analysis, calculations related to transient and steady-state stability within electric power systems. Factors affecting power system transient stability: load, generation, network topology, protection clearing times, reclosing. Machine models. The swing equation. Equal area criterion. dq0 modeling of synchronous machines. P-f, Q-V loops for synchronous machine control. Prerequisite: ECE 431 or EE 531 or instructor permission.	Course number changed from ECE 550; prerequisites.	See ECE 550.	
Fall 2017	N	EE	538	Dynamics and Control of AC Drives	4	Focus on studying the theory behind the control of ac drive systems. Topics studied will include: coupled circuit modeling of ac machines, dynamic modeling of induction machines, power converter and converter modeling, the simulation of electric machines and drives, electric drive system control, steady state analysis with non-conventional sources, small signal dynamic response and doubly salient electric machines. Prerequisite: EE 432/532.			
Fall 2017	M	EE	537	Advanced Power Systems Protection	4	The second course protection for students who have taken a previous class or have substantial experience in protective relaying. Emphasis: analysis of principles and application of microprocessor-based relays (digital relays) to protection of high-voltage transmission lines, power transformers, power generators, high-voltage substation equipment; wide-area approach to power systems protection. Prerequisites: ECE 431 or EE 531 or instructor permission.	Course number changed from ECE 580; prerequisites.	See ECE 580.	

Fall 2017	N	EE	539	Design of Electrical Machines	4	Modern methods used by engineers to design electromagnetic devices, specifically rotary machines will be presented. Topics covered include finite element analysis modeling using electromagnetic field theory. Magnetic circuit modeling of electric machines, analysis of electrical machines using winding functions. Emphasis will be placed on permanent magnet and induction machine design. Prerequisites: EE 432/532.			
Fall 2017	N	EE	560	Foundations of Cyber-Physical Systems	4	Introduction to the design of microcontroller based embedded systems. Focus is on embedded systems where design seamlessly integrates computational resources with physical systems. Topics covered include sampling theory, sensor/actuator interfacing, real-time and fault-tolerant embedded system design. Basics of wireless sensor networks. Modeling and formal verification techniques. Prerequisite: Graduate standing.			
Fall 2017	M	Eng	300	Literary Form and Analysis	4	Emphasizes skills in close reading, formal analysis, the specialized study of literary genres, argumentation, and the process of drafting, revising, and editing academic essays. Required for, but not restricted to, English majors. Prerequisite for 400-level English courses. Expected preparation: 12 lower-division credits in literature.	Title, description.		
Fall 2017	N	Eng	326	Literature, Community, and Difference	4	Examines the relationship between cultural production and the formation, practice, and representation of social identities.			
Fall 2017	N	Eng	327	Culture, Imperialism, and Globalization	4	Examines cultural encounter and its effects. Topics may address various historical periods and geographical regions, but they will share a focus on connecting aesthetics to the political and institutional contexts of imperialism and globalization.			
Fall 2017	N	Eng	397	Digital Literary Studies	4	Introduction to digital literary studies using both theoretical readings and hands-on computational exercises. Explores how networked computers offer new contexts for reading, interpreting, and making literature and literary criticism. Focuses on using databases and archives to study and produce literary texts. No prior computer training is necessary.			
Fall 2017	N	Eng	428	Canons and Canonicity	4	Examines the historical, institutional, and ideological contexts in which traditions of "great works" have been established, contested, and creatively appropriated. Investigates how categories of social difference such as gender, race, and class have shaped the criteria by which works and authors have been included and excluded from dominant traditions. Prerequisite: Eng 300.			
Fall 2017	M	ESM	100	Portland's Environment	4	Highlights aspects of Portland's environment that make it a great place to learn. Four sections: 1) Great Things – Portland's natural and social assets, 2) Challenges and human impacts, 3) Possible solutions – experiments in science and management, and 4) Engagement – Portland's big advantage.			
Fall 2017	M	ESM	555	Science Communication	1		Grading option.		
Fall 2017	M	ESM	556	Advanced Science Communication Skills	1		Grading option.		
Fall 2017	M	ESR	655	Science Communication	1		Grading option.		
Fall 2017	M	ESR	656	Advanced Science Communication Skills	1		Grading option.		
Fall 2017	M	ESR	692	Foundations of Social-Ecological Systems	4	This theory and applications course acquaints students with key ecological, social, economic and philosophical theories underlying science and management of social-ecological systems. We explore a unifying conceptual model connecting biophysical and social parameters linked by ecosystem services, human perspectives, behaviors and institutional policies in coupled natural and human systems.	Add ESM 592 as dual-level course; title, description.		
Fall 2017	M	Film	358	Narrative Film Production II	4	An intermediate study of aesthetic, technical, and content-related principles of digital filmmaking in fictional narrative formats. Prerequisites: TA 131 or FILM 131 or FILM 331 or TA 331 or FILM 331U or TA 331U and TA 257 or FILM 257 or FILM 258.	Prerequisites.		
Fall 2017	M	Film	359	Narrative Film Production III		An advanced study of aesthetic, technical, and content-related principles of digital filmmaking in fictional narrative formats. Prerequisites: TA 131 or FILM 131 or FILM 331 or TA 331 or FILM 331U or TA 331U and TA 257 or FILM 257 or FILM 258 and TA 358 or FILM 358 or FILM 361.	Prerequisites.		
Fall 2017	M	Film	361	Documentary Film Production II		An intermediate study of aesthetic, technical, and content-related principles of digital filmmaking in nonfiction, documentary formats. Prerequisites: TA 131 or FILM 131 or FILM 331 or TA 331 or FILM 331U or TA 331U and TA 257 or FILM 257 or FILM 258.	Prerequisites.		
Fall 2017	M	Film	362	Documentary Film Production III		An advanced study of aesthetic, technical, and content-related principles of digital filmmaking in nonfiction, documentary formats. Prerequisites: TA 131 or FILM 131 or FILM 331 or TA 331 or FILM 331U or TA 331U and TA 257 or FILM 257 or FILM 258 and TA 358 or FILM 358 or FILM 361.	Prerequisites.		
Fall 2017	M	Film	381	Film History I			Title.		
Fall 2017	M	Film	382	Film History II			Title.		

Fall 2017	M	Film	383	Film History III				Title.		
Fall 2017	M	Fin	441	Fundamentals of Derivative Securities	4	Options, futures, swaps, and other derivative securities. Principles of pricing; uses in speculation, hedging, and risk management, in both securities investment and corporate finance settings. Real options and option-like opportunities in business. Prerequisites: Fin 319, Fin 352, Actg 381.		Prerequisites.		
Fall 2017	M	Fin	456	International Financial Management	4	Development and study of a framework for the financial decisions of multinational businesses; management of working capital, investment and financing decisions of a firm in an international environment; foreign exchange markets, exchange risk, and international diversification. Also offered as graduate-level credit as Fin 556 and may be taken only once for credit. Prerequisites: Fin 319, Actg 381.		Prerequisites.		
Fall 2017	M	Fin	535	Financial Information Systems	4	Study of financial information systems for operations and issues encountered by financial analysts. Topics may include ERP systems, database, model building, the use of information for forecasting, and other topics associated with the use of information systems to support financial analysis.		Course number changed from Actg 551; title, description, credit hours from 4 to 2.	See Actg 551.	
Fall 2017	D	Finn	101, 102, 103	First-Year Finnish	4,4,4					
Fall 2017	D	Finn	201, 202, 203	Second-Year Finnish	4,4,4					
Fall 2017	M	G	355	Earth and Space Sciences for Elementary Educators	4	A survey of Earth and Space Science concepts for students interested in elementary education. The course is designed around "three-dimensional learning" in the sciences: how to engage science content through science practice and recognition of science themes, as outlined in the Oregon Science Standards.		Title, description.		
Fall 2017	M	G	438 538	Applied Scanning Electron Microscopy	4	Theory and practice of scanning electron microscopy and elemental analysis, including beam interactions, signal detection, image and spectrum formation, sample preparation, and data analysis. Student teams pursue original research projects using natural or manufactured specimens provided by science faculty. Graduate students are encouraged to explore thesis-related projects.		Title, description.		
Fall 2017	M	Geog	356	Russian and Its Neighbors	4	An exploration of Russia and fourteen countries that constituted the USSR until 1991. The course examines their shared historical heritage, challenges of the post-Soviet transition, recent political, economic, and social changes, pressing environmental, demographic and public health problems, ethnic conflicts, and Russia's relations with its post-Soviet neighbors and the world.		Description.		
Fall 2017	M	Geog	496 596	Introduction to Spatial Quantitative Analysis	4	Introductory course on quantitative geographic inquiry. Focus on fundamental techniques for the analysis of spatial and non-spatial data as applied to geographic problem scenarios. Topics include the nature of data, descriptive statistics, data exploration, distributions, sampling, and statistical inference.		Title, description.		
Fall 2017	M	Geog	497 597	Advanced Spatial Quantitative Analysis		Introduction to the principles of inferential spatial statistics. Topics include point pattern analysis, spatial autocorrelation, spatial interpolation, and multivariate spatial data analysis. Prerequisite: Stat 243 or Geog 496.		Title, prerequisites.		
Fall 2017	M	Geog	574 674	Methods and Models in Socio-ecological Systems	4	Evaluates changing socioecological systems in a holistic way, drawing multiple disciplines, including ecology, economics, engineering, and geographical and spatial sciences. Introduces methods and models from multiple disciplines to analyze socioecological systems across biophysical, social, economic, and cultural contexts. Provides an interdisciplinary foundation for evaluating socioecological systems.		Course number changed from Geog 694; title, description.	See Geog 694.	
Fall 2017	M	Geog	694	Methods and Models in Ecosystem Services	4			Course number changed to Geog 574/674; title, description.	See Geog 574 674.	
Fall 2017	M	Hst	104, 105, 106	Introduction to World History	4, 4, 4			Title.		
Fall 2017	M	Hst	323	Modern Korea	4	Korea's modern history is as complex as any national history, with colonization from 1905-1945 followed by the political division of the Korean nation that, after a terrible civil war that played out in the context of the Cold War, left two states competing for the legitimacy to rule over Korea.		Description.		
Fall 2017	N	Hst	390	Topics in World History	4	Provides an overview of a particular period and/or theme in world history. Students will focus on major trends and/or connections related to the specific topic. Coverage will be global in breadth. Acceptable for the World History minor.				
Fall 2017	M	Hst	411 511	Public History Lab	4			Course number changed to Hst 495/595; description, prerequisites	See Hst 495 595.	
Fall 2017	M	Hst	490 590	Public History Seminar	0-9			Course number changed to Hst 494 594; description; credit hours; prerequisites.	See Hst 494 594.	

Fall 2017	M	Hst	490 590	Comparative World History	4	Comparative examination of important themes in world history. Both the themes and regional focus vary each term, and themes may be drawn from any time period. Prerequisite: Upper-division standing.	Course number changed from Hst 495/595; description, prerequisites.	See Hst 495 595.	
Fall 2017	M	Hst	493 593	Introduction to Public History	4	Introduction to the field of public history with special emphasis on research methods, procedures, and work in the practice of public history, from archival management to historic preservation and museum studies. Prerequisite: Upper-division standing.	Course number changed from Hst 496/596; description, prerequisites.	See Hst 496 596.	
Fall 2017	M	Hst	494 594	Public History Seminar	4	Engages students in advanced investigation of special topics in public history work, including archives, oral history, project design, digital history, and others. Seminars feature technical readings, group work, peer evaluation, and written projects. Required for graduate students taking the public history track option as Hst 594.	Course number changed from Hst 490 590; description; credit hours, prerequisites.	See Hst 490 590.	
Fall 2017	M	Hst	495 595	Comparative World History	4		Course number changed to Hst 490/590; description, prerequisites.	See Hst 490 590.	
Fall 2017	M	Hst	496 596	Introduction to Public History	4		Course number changed to Hst 493/593; description, prerequisites.	See Hst 493 593.	
Fall 2017	N	Intl	349	Gender and International Development	4	Examines how the material benefits of globalization and development projects are not shared equally across gender(s). Evaluates how development theory and practice address poverty, health, environment, sexuality, population, domestic/paid work. Also examines the emergence of civil society; patterns of violence and political participation globally. This is the same course as WS 349U and may be taken only once for credit.			
Fall 2017	M	Intl	372	Post-colonial Studies of Africa	4		Title.		
Fall 2017	N	Intl	375	Globalization and Forced Migration	4	Exploration of the relationship between globalization and forced migration, with particular emphasis on contemporary prejudice associated with migrants, and the differential experiences of the displaced around the world.			
Fall 2017	M	ISQA	450	Project Management	4	Develops a basic understanding of principles and tools of project management. Covering the phases and activities of projects, as well as the management tools used to create project plans, management, including the impacts of organizational strategy, structure and culture on the development and execution of projects. Prerequisite: BA 339.	Prerequisites.		
Fall 2017	N	It	340	Dissenting Italian Women Writers in Translation	4	Study of modern literary practices and works by Italian women authors through the centuries with emphases on social and political issues. Taught in English.			
Fall 2017	N	Jpn	332	Japanese Religion Through Literature and Performance	4	A survey of important articulations of religion in premodern and modern Japanese literature, drama, film and comic books. Students explore the interplay of religion (Buddhism, Shinto and more) in canonical works of literary and performative culture. Prerequisite: 8 cr of literature.			
Fall 2017	M	Lat	301	Third-Year Latin: Authors of Republican Rome	4	Close reading of one text, prose or poetry, with special attention on syntax, style, and cultural milieu. Some Latin composition modelled on author possible. This is the first course in a sequence of three: Lat 301, Lat 302, and Lat 303. Recommended prerequisite: Lat 203. Repeatable with change of text.	Title, description.		
Fall 2017	M	Lat	302	Third-Year Latin: Authors of Imperial Rome	4	Close reading of one text, prose or poetry, with special attention on syntax, style, and cultural milieu. Some Latin composition modelled on author possible. This is the second course in a sequence of three: Lat 301, Lat 302, and Lat 303. Recommended prerequisite: Lat 301. Repeatable with change of text.	Title, description.		
Fall 2017	M	Lat	303	Third-Year Latin: Post-classical Authors	4	Close reading of one text, or series of texts, prose or poetry, with special attention on syntax, style, and cultural milieu. Some paleographic work with digitized manuscripts. This is the third course in a sequence of three: Lat 301, Lat 302, and Lat 303. Recommended prerequisite: Lat 302. Repeatable with change of text.	Title, description.		
Fall 2017	M	Mgmt	442 542	Human Resources Information Systems & People Analytics	4	Covers fundamental HR information system (HRIS) and people analytics concepts and best practices. Designed for Human Resources Management and Management majors. Topics include: HRIS management, development, and implementation; data analysis and visualization; data security and privacy; and data-related ethical and legal issues. Prerequisite: Mgmt 351.	Add Mgmt 542 to existing Mgmt 442; title, description.		
Fall 2017	M	MIM	579	Asia Field Study	4	Students travel to Asia to visit companies, meet with business executives, and learn more about business within the context of these cultures. This trip provides an opportunity to immerse in the culture and lifestyle of different Asian countries, while learning about global business.	Description; credits from 3 to 4.		
Fall 2017	D	MIM	588	Global Business Strategy I	2				



Fall 2017	M	MIM	589	Global Business Strategy	4	The course will analyze business strategy as both a long-term plan and the translation of that plan into sustainable operational results. This course will examine how strategic decision-making can integrate social responsibility into a global business strategic plan. The course will focus on: the Pacific Rim, US and EU.	Title, description; credits from 2 to 4.		
Fall 2017	N	Mktg	514	Selling and Sales Leadership	4	Students will study selling as a key component of an organization's overall marketing effort. Specific topics will include the sales process, the crucial role of the sales leader, the relationship of sales and marketing, working with channel partners and key issues in recruiting, training, motivating and compensating a sales force. We will focus on business-to-business selling but much of what we learn could be applied to a business-to-business-to-consumer sales environment.			
Fall 2017	M	Mth	421 521, 422 522, 423 523	Ordinary Differential Equations I, II, III	3, 3, 3	Vector fields and phase flows in the plane. Geometric and algebraic properties of linear systems. Existence, uniqueness, and continuity theorems for systems. Additional topics. This is the first course in a sequence of three: Mth 521, Mth 522, and Mth 523 which must be taken in sequence. Prerequisites: Mth 256 and Mth 312.	Course description; prerequisites		
Fall 2017	D	Mth	490 590	Computing in Mathematics for Middle School Teachers	3				
Fall 2017	D	Mth	492 592	Problem Solving for Middle School Teachers	3				
Fall 2017	M	Mth	493 593	Geometry for Middle School Teachers	4	Selected topics from informal geometry, both two- and three-dimensional, with integration of problem solving and technology. Not approved for major credit. Available for graduate credit toward the graduate certificate program in middle school mathematics.	Description, credit hours from 3 to 4.		
Fall 2017	M	Mth	494 594	Arithmetic and Algebraic Structures for Middle School Teachers	4	The study of the real number system and its subsystems will lead to the introduction of more general algebraic structures and their applications, with focus on problem solving. Not approved for major credit. Available for graduate credit toward the graduate certificate program in middle school mathematics. Prerequisite: Mth 112, Mth 212, Mth213.	Description, credit hours from 3 to 4, prerequisites.		
Fall 2017	M	Mth	495 595	Historical Topics in Mathematics for Middle School Teachers	4	A survey of the historical development of topics in mathematics from ancient to modern times, with special emphasis on topics in arithmetic, algebra and informal geometry, and with integration of problem solving and technology. Not approved for major credit. Available for graduate credit toward the graduate certificate program in middle school mathematics. Prerequisite: Mth 112, Mth 212, Mth 213.	Description, credit hours from 3 to 4, prerequisites.		
Fall 2017	M	Mth	496 596	Concepts of Calculus for Middle School Teachers	4	An introduction to the limit concept and its role in defining the derivative, the integral and infinite series. Applications to middle school mathematics, with integration of problem solving and technology. Not approved for major credit. Available for graduate credit toward the graduate certificate program in middle school mathematics. Prerequisite: Mth 112, Mth 212, Mth 213.	Description, credit hours from 3 to 4, prerequisites.		
Fall 2017	M	Mth	497 597	Mathematics in the Middle School Classroom	4	A survey of mathematics taught in the middle school grades, with focus on both content and pedagogical recommendations of the National Council of Teachers of Mathematics, and with integration of problem solving and technology. Not approved for major credit. Available for graduate credit toward the graduate certificate program in mathematics for middle school teachers. Prerequisite: Mth 112, Mth 212, Mth 213.	Description, credit hours from 3 to 4, prerequisites.		
Fall 2017	M	MuEd	420 520	Choral Literature and Rehearsal Techniques I	3	Students will learn the essentials of rehearsing large choral groups from grades 5-8 and requisite materials and techniques for starting and building a middle school choral program. This is the first course in a sequence of two: MuEd 420 and MuEd 421. Also offered for graduate-level credit as MuEd 520 and may be taken only once for credit. Prerequisites: MuEd 045, Mus 322, MuEd 328, and MuEd 334	Description, prerequisite.		
Fall 2017	M	MuEd	421 521	Choral Literature and Rehearsal Techniques II	3	Students will learn the essentials of rehearsing large choral groups from grades 9-12 and requisite materials and techniques for starting and building a high school choral program. This is the second course in a sequence of two: MuEd 420 and MuEd 421. Also offered for graduate-level credit as MuEd 521 and may be taken only once for credit. Prerequisites: MuEd 045, Mus 322, MuEd 328, and MuEd 334	Description, prerequisite.		
Fall 2017	M	MuEd	422	Instrumental Literature & Rehearsal Techniques I	3	Study of the literature and rehearsal techniques for teaching instrumental music in grades 5-8 primarily. Students will serve as a lab ensemble for each other and will play primary and secondary instruments. Score study, appropriate literature selection and administration of a middle school instrumental program are the core areas of study. Also offered for graduate-level credit as MuEd 522 and may be taken only once for credit. Prerequisites: MuEd 045, Mus 321, MuEd 328, MuEd 335, MuEd 336, and MuEd 337.	Prerequisites.		

Fall 2017	M	MuEd	423	Instrumental Literature & Rehearsal Techniques II	3	Study of the literature and rehearsal techniques for teaching instrumental music in grades 9-12, primarily. Student will serve as a lab ensemble for each other and will play primary and secondary instruments. Score study, appropriate literature selection and administration of a high school instrumental program are the core areas of study. Also offered for graduate-level credit as MuEd 523 and may be taken only once for credit. Prerequisites: MuEd 045, Mus 321, MuEd 328, MuEd 335, MuEd 336, MuEd 337, MuEd 421, and MuEd 521.	Prerequisites.		
Fall 2017	M	MuEd	484	Music with Children		Methods and materials for teaching general music classes in the elementary school. Designed for the music specialist; required of all students who seek a basic teaching certificate in music. It is presupposed that all students have performing and theoretical skills and at least one year of music history. Concurrent enrollment in an appropriate practicum (Mus 409) required. Also offered for graduate-level credit as MuEd 584 and may be taken only once for credit. Prerequisites: MuEd 045 and MuEd 328.	Prerequisites.		
Fall 2017	M	Mus	101	Contemporary Music Theory I	4	Music theory relevant to contemporary musical styles. Explores notation, pitch, rhythm, meter, tonality, intervals, chords, lead sheet notation, and diatonic harmony. Includes basic ear training, sight singing, and rhythmic skills. Requires no previous musical experience. First course in a sequence of three: Mus 101, Mus 102, and Mus 103.	Title, description.		
Fall 2017	M	Mus	102	Contemporary Music Theory II	4	Music theory relevant to contemporary musical styles. Explores harmonic function, roman numeral analysis, 12-bar blues, non-chord tones, asymmetrical meter, and modes. Includes basic ear training, sight singing, and rhythmic skills. Second course in a sequence of three: Mus 101, Mus 102, and Mus 103. Prerequisite: Mus 101 or permission of instructor.	Title, description.		
Fall 2017	M	Mus	103	Contemporary Music Theory III	4	Music theory relevant to contemporary musical styles. Explores chromatic harmony, chord extensions, and song forms through analysis, composition, and improvisation. Includes basic ear training, sight singing, and rhythmic skills. Third course in a sequence of three: Mus 101, Mus 102, and Mus 103. Prerequisite: Mus 102 or permission of instructor.	Title, description.		
Fall 2017	M	Mus	191, 192, 193	Group Lesson for Beginners	2		Title.		
Fall 2017	N	Mus	224	Wellness for Musicians	2	Designed to introduce students to a wide range of health-related topics including diet, exercise, sleep, meditation, stress management and injury prevention. Lectures, lab activities, and guest speakers will all be utilized. Students will learn how to improve their health and well-being.			
Fall 2017	N	Mus	225	Music Technology	1	Introduction to the practical skills of navigating a recording studio, live recording set-up, and amplified music context. Basic music and audio production skills are presented. Some peripheral issues, including acoustics, software and hardware operation, mixing and archiving, session management are addressed. This is a repeatable, required course in the PSU Sonic Arts and Music Production program.			
Fall 2017	N	Mus	245	SAMP I: Audio Recording	3	Thorough study of digital audio recording and the signal chain from theoretical, technical, and practical perspectives. Students will learn the practical skills of an audio technician through live recording of sounds, musical instruments, and human voices. Topics include digital audio theory; microphone properties, applications, and ideal placements; and tools and techniques used to acquire robust and clear documentation of sound.			
Fall 2017	N	Mus	246	SAMP II: Studio Techniques	3	Foundational study of the concepts and techniques used in commercial music production. This class will introduce multi-track digital audio recording, editing, mixing and signal processing. Topics will include MIDI music making with virtual instrument plug ins, synthesis and sampling technologies. Prerequisite: Mus 245.			
Fall 2017	N	Mus	247	SAMP III: Studio Production	3	Recording and producing song-length musical products. Utilizing a series of increasingly complex assignments, students will work through the music production process from inception to distribution. The course includes an examination of the commercial music production business. Prerequisite: Mus 246 or permission of instructor.			
Fall 2017	M	Mus	304	Music History: Medieval, Renaissance, and Baroque	4	Intensive analytical study of the history of music in the Medieval, Renaissance, and Baroque Periods (Mus 304), Classical and Romantic Periods (Mus 305) and 20th Century Period (Mus 306). This is the x class in a sequence of three: Mus 304, Mus 305, and Mus 306.	Title, description; concurrent enrollment allowed.		
Fall 2017	M	Mus	305	Music History: Classical and Romantic	4	Intensive analytical study of the history of music in the Medieval, Renaissance, and Baroque Periods (Mus 304), Classical and Romantic Periods (Mus 305) and 20th Century Period (Mus 306). This is the x class in a sequence of three: Mus 304, Mus 305, and Mus 306.	Title, description; concurrent enrollment allowed.		

Fall 2017	M	Mus	306	Music History: 20th Century	4	Intensive analytical study of the history of music in the Medieval, Renaissance, and Baroque Periods (Mus 304), Classical and Romantic Periods (Mus 305) and 20th Century Period (Mus 306). This is the x class in a sequence of three: Mus 304, Mus 305, and Mus 306.	Title, description; concurrent enrollment allowed.		
Fall 2017	N	Mus	344	Sonic Arts and Music Production Laptop Ensemble	1	An ensemble of humans, laptops, controllers, and speakers. Ensemble members both compose and perform in the ensemble, exploring computer-mediated instrument design, sound synthesis, programming, live interactive performance, and incorporation of visual media. Explorations culminate in public performance. Maximum: six credits. Prerequisite: Mus 247 or permission of instructor.			
Fall 2017	N	Mus	345	SAMP IV: Acoustics for Musicians	3	Study of acoustics as it pertains to the performing musician, audio recording technician, and sound artist. Topics include sound wave production, propagation and dissipation; practical use of the decibel scale; spectral qualities of sounds; psychoacoustics; and acoustic treatment considerations for recording studios and performance spaces. Prerequisite: Mus 247.			
Fall 2017	N	Mus	346	SAMP V: Music with Visual Media	3	Examines music and sound design created to support the visual image. Topics include film scoring technology and technique, creating and editing dialogue and sound effects, working with animation, interfacing with film editors, and the film and video audio post-production business. Prerequisites: Mus 247 and Mus 345.			
Fall 2017	N	Mus	347	SAMP VI: Integrated Sound Arts	3	Incorporates recording techniques, studio production, visual media, sound design, electronic composition, and live interactive performance. Introduces new contexts including iOS, cloud-based music collaboration, DIY electronic instrument building, and live interactive installations using sensor-based technology. Students complete creative projects in collaboration with community partners in the arts or business world. Prerequisite: Mus 346 or permission of instructor.			
Fall 2017	N	Mus	366	New Orleans: Jazz and Culture in the Storyville Era	4	Examines the music of New Orleans during the Storyville era of early 20th century, and its place in the broader context of American popular music history. Students explore the historical narrative surrounding popular music, culture, and identity, as it emerged in New Orleans.			
Fall 2017	N	Mus	367	The Music of Nashville: From Honky Tonk to Hip-Hop	4	Examines the music of Nashville, and its place in the broader context of American popular music history. Students will explore the historical narrative surrounding popular music, culture, and identity as it emerged in Nashville, Music City USA. Students will trace the city's country music origins and later developments to include indie, hip-hop, pop, and soul.			
Fall 2017	N	Mus	368	Motown: Detroit's History and Music	4	Examines the music of Motown, and its place in the broader context of American popular music history. Students will explore the historical narrative surrounding popular music, culture, and identity as it emerged in Detroit, the city of Motown's origin.			
Fall 2017	M	Mus	421 521	Analysis of Contemporary Music	3	Thorough study of compositional techniques and structural devices used in contemporary art music. Topics include formal, harmonic, and rhythmic aspects of the music. Impressionism, serialism, set theory, indeterminacy and minimalism are addressed. The focus is on post-tonal music. Prerequisites: Mus 211, Mus 212, and Mus 213. Graduate prerequisites: Mus 057 or Mus 512.	Add Art 521 to existing Art 421; description, prerequisites.		
Fall 2017	N	Mus	445 545	The Business of Music	3	Comprehensive examination of performance and production as professions for musicians of all genres. Areas of focus include employment strategies, professional affiliations, music career expectations, entertainment industry and management. Topics include branding, marketing, accounting, taxes, distribution and labels, rights and royalties, business relationships, and professional organizations. Prerequisite: Upper-division standing.			
Fall 2017	N	Mus	490 590	Fundamentals of Acting for Singers	3	Acting training tailored to singers pursuing careers in performance. Methods are Stanislavski-based, combined with Meisner techniques, and Reichian breath work. The class will involve some lecture, but will primarily focus on storytelling, character development, and other performance techniques taught in an experiential fashion. Prerequisites: MuP 190 and MuP 290.			
Fall 2017	M	Mus	520	Analytical Techniques	3	Study of analytical techniques applied to musical compositions of various styles to discover sources of unity, variety, order, and expression present in them. The application of a variety of analytical approaches will guide discovery of musical materials, harmonic and rhythmic relationships, compositional procedures, and formal structures in music. Prerequisite: Pass MUS 057 or MUS 512.	Description, prerequisites.		
Fall 2017	D	Mus	521	Advanced Band Arranging	3				
Fall 2017	M	Mus	560	Music History: Medieval Period	2	Intensive, analytical study of the history of music of the Middle Ages and its relationship to contemporary historical events. Prerequisite: Pass MUS 056 or MUS 529.	Description, prerequisites.		

Fall 2017	M	Mus	561	Music History: Renaissance	2	Intensive, analytical study of the history of music from 1400 to 1600 and its relationship to contemporary historical events. Prerequisite: Pass MUS 056 or MUS 529.	Description, prerequisites.		
Fall 2017	M	Mus	562	Music History: The Baroque	2	Intensive, analytical study of the history of music from 1600 to 1750 and its relationship to contemporary historical events. Prerequisite: Pass MUS 056 or MUS 529.	Description, prerequisites.		
Fall 2017	M	Mus	563	Music History: Classical and Romantic	2	Intensive, analytical study of the history of music from 1750 to 1825 and its relationship to contemporary historical events. Prerequisite: Pass MUS 056 or MUS 529.	Description, prerequisites.		
Fall 2017	M	Mus	564	Music History: The Romantic Period	2	Intensive, analytical study of the history of music from 1825 to 1900 and its relationship to contemporary historical events. Prerequisite: Pass MUS 056 or MUS 529.	Description, prerequisites.		
Fall 2017	M	Mus	565	Music History: Early 20th Century	2	Intensive, analytical study of the history of music from 1900 to 1950 and its relationship to contemporary historical events. Prerequisite: Pass MUS 056 or MUS 529.	Description, prerequisites.		
Fall 2017	M	Mus	566	Music History: Music since 1950	2	Intensive, analytical study of the history of music since 1950 and its relationship to contemporary historical events. Prerequisite: Pass MUS 056 or MUS 529.	Description, prerequisites.		
Fall 2017	M	Mus	567	Jazz History	2	Advanced studies in Jazz History. Course involves individual research projects culminating in student class presentations. Prerequisite: Pass Mus 056 or Mus 529.	Description, prerequisites.		
Fall 2017	N	NAS	306	Red Power	4	The Red Power movement arose in reaction to centuries of oppressive federal oversight of American Indian peoples. It comprised an assortment of grassroots organizations that fought for treaty rights, tribal sovereignty, self-determination, cultural preservation, and cultural relevancy in education. This course will examine the Alcatraz occupation and the government response.			
Fall 2017	N	NAS	344	Indigenous Women Leadership	4	From Sacajawea to Winona LaDuke, this course identifies the contributions of Indigenous women as keepers of tradition, leaders, teachers, healers, activists and visionaries, drawing upon their voices to understand leadership principles fundamental to Native American and global communities. Social justice, particularly in areas of land and the environment, is emphasized.			
Fall 2017	M	PA	320	Introduction to Nonprofit Management	4		Course number changed from PA 420; removes repeatability.		
Fall 2017	M	PA	420	Introduction to Nonprofit Management	4		Course number changed to PA 320; removes repeatability.		
Fall 2017	N	PAP	514	Institutional Dynamics of Public Policy	3	Focus on the institutional determinants and factors that shape the public policy arena. Coverage includes the varieties of institutions, including their rules and cultures, that affect public policy, how policy change strategies can incorporate institutions, and how institutions shape policy outcomes and impacts.			
Fall 2017	N	Ph	495 595	Materials Physics	4	Introduction to materials physics. Generalized geometric-structural crystallography is at the core of this field because it allows for the derivation of the physical properties of condensed matter. Crystallographic symmetries are treated as continuous features. Quantitative X-ray diffraction, crystal defects, textures, modulated structures, and quasicrystals are also discussed. Prerequisites: Ph 211, Ph 212, Ph 213, Ph 221, Ph 222, Ph 223, Ph 311, Ph 312, Ph 314, Ph 315, Ph 316, Ph 322, Ph 431, Ph 432, Ph 434, and their prerequisites; Mth 251, Mth 252, Mth 253: Calculus I-III, 256: Differential equations and multivariate calculus, 261: Linear Algebra and their prerequisites.		Dual-level course.	
Fall 2017	M	PHE	516	Families and Aging			Prefix change to Age.	No other changes to course.	
Fall 2017	M	PHE	523	Business and Aging			Prefix change to Age.	No other changes to course.	
Fall 2017	M	PHE	540	Mass Media and Health	3	Examine the use and effectiveness of mass media to both report the news about health and to promote changes of action in health-related areas. Students will be required to critique media health messages regarding their objectivity and the extent to which they are comprehensive. Prerequisites: PHE 512.	Prerequisites.		
Fall 2017	M	PHE	541	Media Advocacy and Public Health	3	Provides students with an understanding of the role of media advocacy in advancing public health policies to promote health. The course uses lectures, group exercises, and case studies to illustrate basic concepts and skills related to media advocacy. Topics covered include: gaining access to the news, framing issues from a public health perspective, and the use of paid advertising to advance policy. Content areas include tobacco, violence, handguns, suicide, alcohol, and other public health issues. Prerequisites: PHE 512.	Prerequisites.		
Fall 2017	M	PHE	556	Health Aspects of Aging			Prefix change to Age.	No other changes to course.	
Fall 2017	M	PHE	557	National Long-Term Care Policy			Prefix change to Age.	No other changes to course.	
Fall 2017	M	PHE	558	Perspectives on Aging			Prefix change to Age.	No other changes to course.	
Fall 2017	M	PHE	559	Economics of Aging			Prefix change to Age.	No other changes to course.	
Fall 2017	M	PHE	560	Mental Health & Aging			Prefix change to Age.	No other changes to course.	

Fall 2017	M	PHE	562	Global Aging			Prefix change to Age.	No other changes to course.	
Fall 2017	M	PHE	563	Service Learning in Nicaragua			Prefix change to Age.	No other changes to course.	
Fall 2017	M	PHE	657	National Long-Term Care Policy			Prefix change to Age.	No other changes to course.	
Fall 2017	M	PHE	658	Perspectives on Aging			Prefix change to Age.	No other changes to course.	
Fall 2017	M	PHE	659	Economics of Aging			Prefix change to Age.	No other changes to course.	
Fall 2017	M	PHE	660	Mental Health & Aging			Prefix change to Age.	No other changes to course.	
Fall 2017	N	PS	295	The Art and Science of Political Science Research	4	This course is designed to improve students' critical thinking skills and provide tools to craft and critique political science research. Topics covered include the development of re			
Fall 2017	N	Psy	315	Pathways Through Psychology	4	The course combines career considerations with exploration of multiple aspects of psychology as a discipline and their relevance to student futures. Exposure to faculty, graduate students and employers will help ground decisions about employment and graduate school, broadening perspective on what it is to be a knowledgeable, psychologically literate citizen. Prerequisite: Psy 204.			
Fall 2017	M	Psy	523 623	Structural Equation Modeling	4	Introduction to path analysis, confirmatory factor analysis, and structural equation modeling, topics include exploratory and confirmatory factor analysis, model fitting concepts, mediation, analysis of nonnormal and categorical data, and longitudinal models	Title, description; credit hours from 5 to 4.		
Fall 2017	M	Soc	301	Classical Theory	4		Title.		
Fall 2017	M	Soc	302	Contemporary Sociological Theory	4		Title.		
Fall 2017	N	SpHr	222	Introduction to Speech, Language and Hearing Sciences	4	An overview of the field of speech, language and hearing sciences and its professions. Focus on the scientific basis of speech production, hearing perception and speech acoustics. Foundational information regarding language science will also be addressed. Emphasis on the scientific analysis of speech and language, with an applied clinical focus.			
Fall 2017	M	SpHr	495	Neurogenic Communication Disorders	4	Introduction to speech and language disorders with emphasis on acquired neurogenic disorders due to stroke, traumatic brain injury, and neurodegenerative disorders (e.g., aphasia, dysarthria, right hemisphere syndrome). Prerequisite: SpHr 461.	Title, description, prerequisites.		
Fall 2017	M	SpHr	564	Medical Speech-Language Pathology I	2		Title.		
Fall 2017	N	SpHr	568	Medical Speech Pathology II	2	Covers advanced topics pertinent to assessment and treatment of speech and swallowing in individuals with respiratory impairments in a medical setting. Topics will include pulmonary function and defenses, types of respiratory impairments, tracheostomy, mechanical ventilation, and selected speech and swallowing interventions for individuals with respiratory impairments. Prerequisites: For current students in the Speech-Language Pathology Graduate Program, completion of Medical Speech Pathology I is required. For practicing community clinicians with a Masters degree or higher, no prerequisite is required. Prerequisites: For current students in the Speech-Language Pathology Graduate Program, completion of Medical Speech Pathology I is required. For practicing community clinicians with a Masters degree or higher, no pre-requisite is required.			
Fall 2017	M	SW	515	Skills for the Helping Process-Groups	3		Co-requisite: SW 511.		
Fall 2017	M	SW	530	Skills for the Helping Process-Individuals and Families	3		Co-requisite: SW 511.		
Fall 2017	M	SW	532	Advocacy and Empowerment	3		Co-requisite: SW 511.		
Fall 2017	M	SW	566	Partnering with and Practicing in Child Welfare	3		Title.		
Fall 2017	M	SW	579	Engaging with the Mandated Client	3		Title.		
Fall 2017	N	Unst	450	Mentoring in Higher Education	4	Introduction to theories, research, and best practices for peer mentoring in higher education. Focus is on issues that impact the retention and success rates of college students. Students will develop their own frameworks, resources, and skills to become effective peer mentors.			
Fall 2017	N	USP	413 513	Public Space	4	An introduction to the study of public spaces in American cities, with a special focus on Portland. Key readings include history and theory of concepts of public space, as well as contemporary case studies and field assignments to understand the production and maintenance of public spaces around Portland. Prerequisite: Upper-division or graduate standing.			
Fall 2017	D	USP	513	Introduction to Landscape Architecture	3				
Fall 2017	N	USP	597	Regional Economic Analysis	2	Reviews analytical tools and data sources and provides hands on training for applying them to questions about regional economies. Includes demographic analysis, regional business structure, analyzing regional economic change, labor market analysis, researching firms, and conducting cluster analysis and economic opportunities analysis.			
Fall 2017	N	WLL	349	Forbidden Love	4	Study of depictions in literary works of gender and sexual identity, orientation, or practice that differs from that of the majority of the surrounding society. Works will be drawn from world literatures in translation. Course may be repeated with different topics. Course conducted in English.			

Fall 2017	N	Wr	301	Critical Writing in English	4	This writing-intensive course extends the skills developed in ENG 300 by studying some selected theoretical and disciplinary approaches to literary and other texts (including literary and rhetorical theory), and by introducing students to research methods as a way of entering scholarly conversations.			
Fall 2017	N	WS	320	Introduction to Girls' Studies	4	An overview of the field of girls' studies in the U.S., including the ways definitions of girlhood change depending on contexts of race, class, ethnic or national identity, gender identity and sexual orientation. Explores gendered ideals and negotiations of girlhood, concepts of girls' empowerment, theory and research methods.			
Fall 2017	N	WS	349	Gender and International Development	4	Examines how the material benefits of globalization and development projects are not shared equally across gender(s). Evaluates how development theory and practice address poverty, health, environment, sexuality, population, domestic/paid work. Also examines the emergence of civil society; patterns of violence and political participation globally. This is the same course as Intl 349U and may be taken only once for credit.			
Fall 2017	N	WS	369	Global Reproductive Justice	4	This survey course explores movements for reproductive justice within the U.S. and globally. We examine reproductive rights organizing, reproductive health, and the impacts of race, class, gender, sexuality, nationality and ability among other identities on groups seeking to exercise reproductive autonomy.			
Fall 2017	N	WS	381	Queer of Color Theorizing and Perspectives	4	Utilizing critical race, feminist, queer, decolonial, and materialist analyses, queer of color theories highlight the intersections of race, sexuality, and nations. An overview of the development and foundational approaches to queer of color critiques, as well as an opportunity to apply these theories to contemporary issues. Prerequisite: WS 360 or WS 305.			
Fall 2017	N	WS	382	Transgender Studies	4	Focus on contemporary transgender lives and politics; it is an introduction to the field of Transgender Studies. Analyze lived realities and academic scholarship. Topics may include: transgender history, health care justice, violence and discrimination, the prison-industrial complex, and exclusion and inclusion in feminist and LGBTQ politics.			
Fall 2017	N	WS	453 553	Feminism and Women's Health	4	The medicalization of women's bodies sustains the myth that the female body is essentially a reproductive body and the male body the standard of health. Using a feminist lens of analysis, this class will examine these gendered conceptions relating to health, medical research, and treatments of gendered bodies. Prerequisite: Upper-division standing.			
Fall 2017	N	WS	482	Topics in Transnational Sexuality	4	An examination of how sexualities are understood within a transnational frame of analysis. Topics include the sexual politics of migration, tourism and desire, colonialism and its lingering effects, militarization and sexuality, transnational biopolitics of sexuality, and the politics of global gay rights discourse. Prerequisite: Junior standing.			












































