

**UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 10
Spring 2018**

---COURSES---

The courses listed below reflect the undergraduate major curricular changes approved by the Catalog Subcommittee since approval of the last Undergraduate Major Change Bulletin. All new and revised courses are printed in their entirety under the headings Current and Proposed, respectively. The column to the far right indicates the date each change becomes effective.

Subject	Course Number	New Revise Drop	Current	Proposed	Effective Date
ANTH	205	New	--N/A--	[SSCI] Health, Healing, and Medicine Across Cultures 3 Anthropological perspective on health, disease, and medical/curing systems; relationships between culture, biology, political-economic environments, disease, and curing examined. Recommended preparation: ANTH 101 or 203. Typically offered Spring.	8-18
H D	445	New	--N/A--	Early Childhood Professional Preparation Seminar 3 Course Prerequisite: H D 341; junior standing; by permission only. Preparation for careers and practicum placement in early childhood education, with an emphasis in self-assessment and professionalism; procurement of field practicum with an early childhood program in preparation for H D 446 Practicum in Early Childhood Programs. Typically offered Fall and Spring.	8-18
KINES	315	New	--N/A--	Leadership in Recreation and Sport Activities 3 Course Prerequisite: SPMGT 101 or KINES 201; SPMGT 290 or concurrent enrollment. Foundational methods, theories, and models for positive youth development through play, recreation activity, and sport; focus on effective game leading and	8-18

				group facilitation strategies. Typically offered Fall and Summer.	
ME	462	New	--N/A--	Introduction to Nuclear Engineering II 3 Course Prerequisite: MATH 315. Fundamentals of nuclear engineering, heat deposition and removal from nuclear reactors, radiation protection, radiation shielding, and licensing, safety, and environmental aspects of nuclear reactor operation. Typically offered Spring.	8-18
<u>SOE</u>	100	Revise	Introduction to Natural Resource Management I 1 Nature and significance of natural resources; types of renewable natural resource systems; goals and principles of natural resource management.	<u>An Introduction to Our Environment: Geology, Ecology, and Environmental Stewardship</u> 1 <u>A holistic understanding of the Earth's environment; knowledge of geology, ecology, environmental science, and human political dimensions; basic comprehension of environmental issues. (Formerly NATRS 100).</u>	8-18
<u>SOE</u>	103	Revise	[PSCI] Other Worlds: Comparative Planetology of our Solar System 3 Study of the geological processes and environments on planets and moons of our solar system. Typically offered Spring.	[PSCI] Other Worlds: Comparative Planetology of our Solar System 3 Study of the geological processes and environments on planets and moons of our solar system. (Formerly <u>GEOLOGY 103</u>). Typically offered Spring.	8-18
<u>SOE</u>	230	Revise	[PSCI] Introductory Oceanography 3 Interdisciplinary study of ocean systems: marine geology, chemistry, physics and biology; oceans' influence on climate and response to human activity. Typically offered Fall.	[PSCI] Introductory Oceanography 3 Interdisciplinary study of ocean systems: marine geology, chemistry, physics and biology; oceans' influence on climate and response to human activity. (Formerly <u>GEOLOGY 230</u>). Typically offered Fall.	8-18
<u>SOE</u>	275	Revise	Rivers: Form, Function, and Management 3 Introduction to rivers, stream ecology, and restoration. Typically offered Fall and Spring.	Rivers: Form, Function, and Management 3 Introduction to rivers, stream ecology, and restoration. (Formerly <u>ENVR SCI 275</u>). Typically offered Fall and Spring.	8-18
<u>SOE</u>	301	Revise	Forest Plants and Ecosystems 3 (2-3) Course Prerequisite: NATRS 300 or concurrent enrollment.	Forest Plants and Ecosystems 3 (2-3) Course Prerequisite: <u>SOE 300</u> or concurrent enrollment.	8-18

			Identification and ecology of forest plants with emphasis on trees and the ecosystems in which they occur. Field trips required. Typically offered Fall.	Identification and ecology of forest plants with emphasis on trees and the ecosystems in which they occur. Field trips required. (Formerly NATRS 301). Typically offered Fall.	
<u>SOE</u>	302	Revise	Arid Land Plants and Ecosystems 3 (2-3) Course Prerequisite: NATRS-301 . Identification and ecology of arid land plants (trees, shrubs, grasses, forbs) and the ecosystems in which they occur. Field trips required. Typically offered Spring.	Arid Land Plants and Ecosystems 3 (2-3) Course Prerequisite: <u>SOE 300</u> ; <u>SOE 301</u> . Identification and ecology of arid land plants (trees, shrubs, grasses, forbs) and the ecosystems in which they occur. Field trips required. (Formerly NATRS 302). Typically offered Spring.	8-18
<u>SOE</u>	303	Revise	Environmental Geology 3 Course Prerequisite: GEOLOGY 101 or 102. Geological hazards and geologic problems associated with human activities. Required field trip. Typically offered Spring.	Environmental Geology 3 Course Prerequisite: <u>SOE 101</u> or 102. Geological hazards and geologic problems associated with human activities. Required field trip. (Formerly GEOLOGY 303). Typically offered Spring.	8-18
<u>SOE</u>	305	Revise	Silviculture 3 Stand dynamics, natural regeneration methods, intermediate stand treatment, relationships of natural resource management to silvicultural practice. Field trips required. Typically offered Fall.	Silviculture 3 Course Prerequisite: <u>SOE 204</u> ; <u>SOE 300</u> ; <u>SOE 302</u> . Stand dynamics, natural regeneration methods, intermediate stand treatment, relationships of natural resource management to silvicultural practice. Field trips required. (Formerly NATRS 305). Typically offered Fall.	8-18
<u>SOE</u>	312	Revise	[DIVR] Natural Resources, Society, and the Environment 3 Social views of natural resources; processes by which these views are developed and expressed; social conflict over natural resources. Typically offered Spring.	[DIVR] Natural Resources, Society, and the Environment 3 Social views of natural resources; processes by which these views are developed and expressed; social conflict over natural resources. (Formerly NATRS 312). Typically offered Spring.	8-18
<u>SOE</u>	320	Revise	Sedimentary Petrology and Sedimentation 3 (2-3) Course Prerequisite: GEOLOGY 210 ; GEOLOGY 350 . Sedimentary rock composition and origins applying fundamental principles of sedimentology. Field trip required. Typically offered Fall.	Sedimentary Petrology and Sedimentation 3 (2-3) Course Prerequisite: <u>SOE 350</u> . Sedimentary rock composition and origins applying fundamental principles of sedimentology. Field trip required. (Formerly GEOLOGY 320). Typically offered Fall.	8-18

<u>SOE</u>	350	Revise	Mineralogy and Crystallography 4 (2-6) Course Prerequisite: CHEM 101 or 105; GEOLOGY 101, 102, or 210. Composition, physical properties, structure, crystallography, identification, and origin of minerals. Field trip required. Typically offered Fall.	Mineralogy and Crystallography 4 (2-6) Course Prerequisite: CHEM 101 or 105; <u>SOE</u> 101, 102, or 210. Composition, physical properties, structure, crystallography, identification, and origin of minerals. Field trip required. (Formerly <u>GEOLOGY 350</u>). Typically offered Fall.	8-18
<u>SOE</u>	403	Revise	Sampling for Terrestrial Ecosystem Management 3 (2-3) Course Prerequisites: NATRS 204; STAT 212 or 412. Simple random sampling, stratified sampling, and sampling in proportion to importance; foundation presented for selecting a sampling scheme, implementing it in the field, and assessing variance. Typically offered Spring.	Sampling for Terrestrial Ecosystem Management 3 (2-3) Course Prerequisites: <u>SOE</u> 204; STAT 212 or 412. Simple random sampling, stratified sampling, and sampling in proportion to importance; foundation presented for selecting a sampling scheme, implementing it in the field, and assessing variance. (Formerly <u>NATRS 404</u>). Typically offered Spring.	8-18
<u>SOE</u>	405	Revise	Geophysics 4 (3-3) Course Prerequisite: GEOLOGY 340. Theory and application of geophysical methods for hydrology, environmental, engineering, exploration, and structural geology; review of techniques. Offered at 400 and 500 level. Typically offered Fall and Spring.	Near Surface Geophysics 4 (3-3) <u>Exploration of near surface geophysics techniques as applicable, but not limited to, groundwater analysis, environmental remediation, archaeology, and natural resources detection.</u> (Formerly <u>GEOLOGY 405/505</u>) Typically offered Fall.	8-18
<u>SOE</u>	411	Revise	[M] Limnology and Aquatic Ecosystem Management 3 (2-3) Introduction to the science and management of aquatic ecosystems, emphasizing lakes. Typically offered Fall.	[M] Limnology and Aquatic Ecosystem Management 3 (2-3) Introduction to the science and management of aquatic ecosystems, emphasizing lakes. (Formerly <u>NATRS 411</u>). Typically offered Fall.	8-18
<u>SOE</u>	417	Revise	Fisheries Science 3 Course Prerequisite: BIOLOGY 106; STAT 212 or MATH 171. Background on the development of fisheries science and examination of the natural and social scientific theories and techniques applied to the management of fisheries. Typically offered Odd Years - Fall.	Fisheries Science and Management 3 Course Prerequisite: <u>SOE 411</u> or <u>BIOLOGY 412</u> ; STAT 212 or MATH 171. Background on the development of fisheries science and examination of the natural and social scientific theories and techniques applied to the management of fisheries. (Formerly <u>ENVR SCI 417</u>). Typically offered Odd Years - Fall.	8-18

<u>SOE</u>	430	Revise	Introduction to Wildland Fire 3 Course Prerequisite: NATRS 301. Physical nature and behavior of wildland fire; the fire environment; fire ecology; practice of wildland fire management. Field trip required. Typically offered Even Years - Fall.	Introduction to Wildland Fire 3 Course Prerequisite: <u>SOE 300</u> ; <u>SOE 301</u> . Physical nature and behavior of wildland fire; the fire environment; fire ecology; practice of wildland fire management. Field trip required. (Formerly NATRS 430). Typically offered Even Years - Fall.	8-18
<u>SOE</u>	438	Revise	Natural Resource and Environmental Policy and Law 3 Course Prerequisite: Junior standing. Development, content and implementation of natural resources and environmental policy and law in the U.S. Emphasis on both historical development and current issues in this field. Recommended preparation: NATRS 312. Typically offered Spring.	Natural Resource and Environmental Policy and Law 3 Course Prerequisite: Junior standing. Development, content and implementation of natural resources and environmental policy and law in the U.S.; emphasis on both historical development and current issues in this field. Recommended preparation: <u>SOE 312</u> . (Formerly NATRS 438). Typically offered Spring.	8-18
<u>SOE</u>	463	Revise	Water in the Environment 3 Water flows in the natural environment, including cloud formation, rainfall, evaporation, infiltration, groundwater, river flows, lakes, estuaries, mixing, and erosion.	Water in the Environment 3 Course Prerequisite: <u>One semester of MATH 140, 171, PHYSICS 101, 201, or 205</u> . Water flows in the natural environment, including cloud formation, rainfall, evaporation, infiltration, groundwater, river flows, lakes, estuaries, mixing, and erosion. (Formerly ENVR SCI 463).	8-18
<u>SOE</u>	471	Revise	International Wildlife Conservation 3 Course Prerequisite: Junior standing. A broad survey of international wildlife conservation that touches on biological, social, and political aspects of wildlife management; focus on understanding the unique challenges that are encountered in the international arena. Typically offered Even Years - Spring.	International Wildlife Conservation 3 Course Prerequisite: Junior standing. A broad survey of international wildlife conservation that touches on biological, social, and political aspects of wildlife management; focus on understanding the unique challenges that are encountered in the international arena. (Formerly NATRS 470). Typically offered Even Years - Spring.	8-18
<u>WRIT</u>	431	New	--N/A--	Writing Center Theory and Practice 1 May be repeated for credit; cumulative maximum 2 hours. Course Prerequisite: By instructor permission. Education and training for work at the WSU Undergraduate Writing Center with	8-18

				focus on the scholarship of theory and practice. Typically offered Fall and Spring. S, F grading.	
WRIT	432	New	--N/A--	Small Group Collaboratives Theory and Practice V 1-2 Course Prerequisite: By instructor permission. Education and training for work at the WSU Undergraduate Writing Center's Small Group Collaboratives program with focus on the scholarship of theory and practice. Typically offered Fall and Spring. S, F grading.	8-18