UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 6
Spring 2013

Faculty Senate Approved February 14, 2013

---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.

Prefix	Course Number	New Revise Drop	Current	Proposed	Effective Date
AFS	**336**	**Revise**	~~**[S]**~~ **Agriculture, Environment, and Community** 3 Course Prerequisite: 3 credits [S] or [K] GER, or [SSCI] UCORE; sophomore standing. ~~Examines interdependencies between farming/ranching, the natural environment and human communities including perspectives on sustainable agriculture.~~	**(CRS)[SSCI] Agriculture, Environment, and Community** 3 Course Prerequisite: 3 credits [S], [K] , or [SSCI]; sophomore standing. Sociological perspectives on major agrifood trends, alternative agrifood movements, and impacts on human communities and the natural environment.	**8-13**
AMDT	**310**	**Revise**	**Advanced Assembly ~~Techniques~~** ~~3 (0-6)~~ Course Prerequisite: AMDT 211; certified in Apparel Design. Advanced assembly techniques for a range of textiles and multi-layer garments; emphasis of high-quality execution on final products.	**(410) Advanced Apparel Assembly** 4 (1-6) Course Prerequisite: AMDT 211; certified in Apparel Design. Advanced assembly techniques for a range of materials and multi-layer garments; emphasis of high-quality execution on final products.	**8-13**
BIOLOGY/ ENVR_SCI	**469**	**Revise**	**Ecosystem Ecology and Global Change** 3 Historic and current factors controlling the function of ecosystems and their responses to natural and human caused global change. (Crosslisted course offered as BIOLOGY 469, ENVR SCI 469, BIOLOGY 569, ENVR SCI 569). Credit not granted for both BIOLOGY 469 and 569, or ENVR SCI 469 and 569.	**Ecosystem Ecology and Global Change** 3 Historic and current factors controlling the function of ecosystems and their responses to natural and human caused global change. (Crosslisted course offered as BIOLOGY 469, ENVR SCI 469, BIOLOGY 569, ENVR SCI 569). Credit not granted for both BIOLOGY 469 and 569, or ENVR SCI 469 and 569.	**8-15**

			Offered at 400 and 500 level.	Offered at 400 and 500 level. Cooperative: Offered to UI degree-seeking students.	
ECE	**316**	**New**	--N/A--	**Nanotechnology for Semiconductor and Renewable Energy Applications** 3 Course Prerequisite: CHEM 105; PHYSICS 202. Scaling laws, nanofabrication, nanomaterials, nanoscale characterization; nanotechnology in semiconductor industry, critical dimension, solar cells, fuel cells, energy storage, batteries, energy efficiency and energy savings.	**8-13**
ECE	**466**	**New**	--N/A--	**Semiconductor Material and Device Characterization** 3 Course Prerequisite: ECE 349. Modern semiconductor material and device characterization techniques; electrical, optical, and physical characterization methods commonly used in semiconductor industry.	**8-13**
ENGR	**420**	**Revise**	**Multidisciplinary Engineering Design I** 3 (1-4) Course Prerequisite: Senior standing; certified engineering major. Needs analysis and conceptualization of technological products and business plan for target market; multidisciplinary team development.	**Multidisciplinary Engineering Design I** 3 (1-4) Course Prerequisite: Senior standing; certified engineering major. Needs analysis and conceptualization of technological products and business plan for target market; multidisciplinary team development. Offered at 400 and 500 level.	**8-13**
ENGR	**421**	**Revise**	**[T,M] Multidisciplinary Engineering Design II** 3 (1-4) Course Prerequisite: Senior standing; certified engineering major. Prototype solution developed and evaluated and business plan completed; presentation to stake holders; team development and assessment.	**[T,M] Multidisciplinary Engineering Design II** 3 (1-4) Course Prerequisite: Senior standing; certified engineering major. Prototype solution developed and evaluated and business plan completed; presentation to stake holders; team development and assessment. Field trip required. Offered at 400 and 500 level.	**8-13**
GEOLOGY	**408**	**Revise**	**[M] Field Geology** 3 (0-9)	**(308) [CAPS][M] Field**	**5-13**

			Course Prerequisite: GEOLOGY 307; GEOLOGY 340; GEOLOGY 350. Advanced field problems and methods; ~~interpretation of field data, preparation of reports based on field observations and interpretations.~~ ~~Cooperative course taught jointly by WSU and UI (GEOL 490).~~	**Geology** 3 (0-9) Course Prerequisite: GEOLOGY 307; GEOLOGY 340; GEOLOGY 350; senior standing. Advanced field problems and methods; data interpretation and report preparation. Cooperative: Open to UI degree-seeking students.	
GEOLOGY	**490**	**Revise**	**Undergraduate Research** V 1-3 Course Prerequisite: GEOLOGY 101; GEOLOGY 210. Research and advanced laboratory experience with a geology faculty member; oral presentation and written thesis.	**Undergraduate Research** V 1-3 May be repeated for credit; cumulative maximum 6 hours. Course Prerequisite: GEOLOGY 101; GEOLOGY 210. Research and advanced laboratory experience with a geology faculty member; oral presentation and written thesis.	**5-13**
PHARMACY	**554**	**Revise**	**Pharmacotherapy IV** ~~3~~ Course Prerequisite: PHARMACY 544. Fourth in a sequence of courses that focuses on the clinical use of medications in the prevention, mitigation, or cure of disease.	**Pharmacotherapy IV** 4 Course Prerequisite: PHARMACY 544. Fourth in a sequence of courses that focuses on the clinical use of medications in the prevention, mitigation, or cure of disease.	**8-13**
PHARMACY	**557**	**Revise**	**Pharmacotherapy V** ~~3~~ Course Prerequisite: PHARMACY ~~544~~. Fifth in a sequence of courses that focuses on the clinical use of medications in the prevention, mitigation, or cure of disease.	**Pharmacotherapy V** 4 Course Prerequisite: PHARMACY 554. Fifth in a sequence of courses that focuses on the clinical use of medications in the prevention, mitigation, or cure of disease.	**8-13**
PHARMACY	**580**	**New**	--N/A--	**Practical Politics and Pharmacy** 1 Course Prerequisite: PHARMACY 505. Study of government and legislation to better assist patients in navigating the political process.	**1-14**
PHYSICS	**408**	**Revise**	**~~[P]~~ Physics and Society** 3 Interactions of physics with society; energy; air and water pollution; recycling; communications and computers;	**(380) [CAPS] Physics and Society** 3 Course Prerequisite: Junior Standing. Interactions of physics with society; energy; air and water pollution; recycling; communications and computers;	**8-13**

			physics and war; physics and art.	physics and war; physics and art.	
UCOLLEGE	**199**	**New**	--N/A--	**Introduction to Directed Research** V 1-3 May be repeated for credit; cumulative maximum 12 hours. Course Prerequisite: By permission only. Introduction to independent research, scholarship, reading analysis, creative project, or field experiences.	**5-13**
UCOLLEGE	**496**	**New**	--N/A--	**Experiences in Health Care** V 1-3 May be repeated for credit; cumulative maximum 6 hours. Course Prerequisite: By permission only. Work or shadowing experience under supervision of a qualified professional in a clinic. S, F grading.	**5-13**
WOMEN_ST	**101**	**Revise**	**~~[S,D]~~ Gender and Power: Introduction to Women's Studies** 3 Analysis of gender and power in contemporary society from perspectives of different racial, ethnic and socioeconomic groups.	**(200) [DIVR] Gender and Power: Introduction to Women's Studies** 3 Analysis of gender and power in contemporary society from perspectives of different racial, ethnic and socioeconomic groups.	**8-13**