

**UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 10
Spring 2015**

---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
CHE	462	New	--N/A--	Applied Electrochemistry 3 Course Prerequisite: CHE 301 with a C or better; CHE 310 with a C or better; CHE 321 with a C or better; CHEM 331 with a C or better; certified major in Chemical Engineering. Thermodynamics, kinetics, and transport processes that occur in a simple model electrochemical system and how to apply them into more complicated real systems. Typically offered: Spring.	8-15
ENGR	431	New	--N/A--	[CAPS] Interdisciplinary Design II 3 (1-4) Course Prerequisite: ENGR 430 with a C or better; senior standing; major or by permission. Master plan, design development, construction documentation, sustainability analysis; multidisciplinary team development. Typically offered: Spring.	8-15
ENVR SCI	417	New	--N/A--	Fisheries Science 3 Course Prerequisite: BIOLOGY 106; STATS 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.	8-15
ME	<u>304</u>	Revise	Heat Transfer 3 Course Prerequisite: ME 301; ME 303;	(404) Heat Transfer 3 Course Prerequisite: ME 301; ME 303;	8-15

			certified major in Mechanical Engineering, Materials Science Engineering, Civil Engineering, or Electrical Engineering. Conduction, radiation, and convection heat transfer; analytical, numerical, experimental results for solids, liquids, and gases; heat exchanger design. Cooperative: Open to UI degree-seeking students.	certified major in Mechanical Engineering, Materials Science Engineering, Civil Engineering, or Electrical Engineering. Conduction, radiation, and convection heat transfer; analytical, numerical, experimental results for solids, liquids, and gases; heat exchanger design. Cooperative: Open to UI degree-seeking students.	
NATRS	485	New	--N/A--	Disturbance Ecology 3 (2-3) Course Prerequisite: NATRS 204; NATRS 301; NATRS 302 or concurrent enrollment. Fire, disease and other disturbances are primary drivers of structure and composition in terrestrial ecosystems; management of insect outbreaks and fungal organisms in combination with fire and other disturbances will be discussed. Typically offered: Spring.	8-16
NEUROSCI	150	New	--N/A--	[BSCI] Art and the Brain 3 Explore networks involved in sensory perception; study how art integrates perceptual experiences into works that affect human understanding. Typically offered: Fall.	8-15
UNIV	295	New	--N/A--	Introduction to Models of Leadership 2 Introduction to leadership theories; development of personal leadership skills and application of leadership strategies via experiential learning. Typically offered: Fall and Spring.	8-15
UNIV	395	New	--N/A--	Advanced Leadership 2 Course Prerequisite: UNIV 295. Advanced study of theoretical and applied concepts of leadership through experiential learning, in-depth case analysis, values exploration. Typically offered: Fall and Spring.	8-15
UNIV	399	New	--N/A--	Leadership Practicum 1 May	8-15

				not be repeated for credit. Course Prerequisite: UNIV 395. Supervised practicum. S, F grading.	
UNIV	495	New	--N/A--	Leadership Capstone 1 Course Prerequisite: UNIV 399. Culminating experience for Cougar Athletic Leadership Development certificate program.	8-15