

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

\*---COURSES---\*

**Faculty Senate Approved April 2, 2015**

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.

<b>Subject</b>	<b>Course Number</b>	<b>New Revise Drop</b>	<b>Current</b>	<b>Proposed</b>	<b>Effective Date</b>
<b>CHE</b>	<b>462</b>	<b>New</b>	<b>--N/A--</b>	<b>Applied Electrochemistry 3</b> 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.	<b>8-15</b>
<b>ENGR</b>	<b>431</b>	<b>New</b>	<b>--N/A--</b>	<b>[CAPS] Interdisciplinary Design II 3 (1-4) Course</b> Prerequisite: ENGR 430 with a C or better; senior standing; certified engineering major or by permission. Master plan, design development, construction documentation, sustainability analysis; multidisciplinary team development. Typically offered: Spring.	<b>8-15</b>
<b>ENVR SCI</b>	<b>417</b>	<b>New</b>	<b>--N/A--</b>	<b>Fisheries Science 3 Course</b> 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,	<b>8-15</b>

				Fall.	
<b>ME</b>	<b><u>304</u></b>	<b>Revise</b>	<b>Heat Transfer 3 Course</b> Prerequisite: ME 301; ME 303; 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.	<b>(404) Heat Transfer 3 Course</b> Prerequisite: ME 301; ME 303; 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.	<b>8-15</b>
<b>NATRS</b>	<b>485</b>	<b>New</b>	--N/A--	<b>Disturbance Ecology 3 (2-3)</b> 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.	<b>8-16</b>
<b>NEUROSCI</b>	<b>150</b>	<b>New</b>	--N/A--	<b>[BSCI] Art and the Brain 3</b> Explore networks involved in sensory perception; study how art integrates perceptual experiences into works that affect human understanding. Typically offered: Fall.	<b>8-15</b>
<b>UNIV</b>	<b>295</b>	<b>New</b>	--N/A--	<b>Introduction to Models of Leadership 2</b> Introduction to leadership theories; development of personal leadership skills and application of leadership strategies via experiential learning. Typically offered: Fall and Spring.	<b>8-15</b>
<b>UNIV</b>	<b>395</b>	<b>New</b>	--N/A--	<b>Advanced Leadership 2 Course</b> Prerequisite: UNIV 295. Advanced study of theoretical and applied concepts of leadership through experiential learning, in- depth case analysis, values	<b>8-15</b>

				exploration. Typically offered: Fall and Spring.	
<b>UNIV</b>	<b>399</b>	<b>New</b>	<b>--N/A--</b>	<b>Leadership Practicum</b> 1 Course Prerequisite: UNIV 395. Supervised practicum. S, F grading.	<b>8-15</b>
<b>UNIV</b>	<b>495</b>	<b>New</b>	<b>--N/A--</b>	<b>Leadership Capstone</b> 1 Course Prerequisite: UNIV 399. Culminating experience for Cougar Athletic Leadership Development certificate program.	<b>8-15</b>