

UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 5
Fall 2016

Faculty Senate approved January 12, 2017

---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. Note: Items marked {S} have been streamlined and do not require Catalog Subcommittee review.

Subject	Course Number	New Revise Drop	Current	Proposed	Effective Date
AMDT	450	Revise	Strategy Planning and Decision Making 3 Course Prerequisite: AMDT 318; certified major in Apparel, Merchandising, and Textiles. Examination and synthesis of advanced merchandising theory; strategic planning, decision-making and the role of technology in the textile and apparel industry. Typically offered Spring.	[M] Strategy Planning and Decision Making 3 Course Prerequisite: <u>AMDT 307</u> ; AMDT 318; certified major in Apparel, Merchandising, <u>Design</u> , and Textiles. Examination and synthesis of advanced merchandising theory; strategic planning, decision-making and the role of technology in the textile and apparel industry. Typically offered Spring.	1-17
ATH T	450	Revise	Evidence-Based Practice in Athletic Training 3 Course Prerequisite: Certified major in Athletic Training . Exploration and application of evidence-based practice through the conduct of scientific inquiry and application of credible evidence. Typically offered Fall.	[M] Evidence-Based Practice in Athletic Training 3 Course Prerequisite: <u>Admitted to Masters in Athletic Training program</u> . Exploration and application of evidence-based practice through the conduct of scientific inquiry and application of credible evidence. Typically offered Fall.	8-19
BIOLOGY / TCH LRN	430	Revise	Methods of Teaching Science 3 Course Prerequisite: Junior standing. Methods, philosophy, and structure of science; application in teaching middle and secondary school science courses. (Crosslisted course offered as BIOLOGY 430, SCIENCE 430). Typically offered Fall.	Methods of Teaching Secondary Science I 3 Course Prerequisite: <u>Junior standing</u> . <u>Application of learning and theory and philosophy and structure of science in teaching middle and secondary school science courses.</u> (Crosslisted course offered as BIOLOGY 430, <u>TCH LRN 430</u>). Typically offered Fall.	8-17
CHEM	220	Revise	Quantitative Analysis 2-Course Prerequisite: CHEM 106 or 116.	Quantitative Analysis 3 Course Prerequisite: CHEM 106 or 116.	8-17

			Theories of quantitative chemical analysis; statistical evaluation of data; chemical equilibrium; volumetric and gravimetric methods of analysis; introduction to electrochemistry. Typically offered Fall and Spring.	Theories of quantitative chemical analysis; statistical evaluation of data; chemical equilibrium; volumetric and gravimetric methods of analysis; introduction to electrochemistry. Typically offered Fall and Spring.	
CHEM	222	Revise	Quantitative Analysis Laboratory 2 (0-6) Course Prerequisite: CHEM 220 or concurrent enrollment. Application of classical methods in volumetric and gravimetric analysis; acid-base, redox and EDTA titrations; ion-exchange chromatography; introduction to spectrophotometry. Typically offered Fall and Spring.	Quantitative Analysis Laboratory 1 (0-3) Course Prerequisite: CHEM 220 or concurrent enrollment. Application of classical methods in volumetric and gravimetric analysis; acid-base, redox and EDTA titrations; ion-exchange chromatography; introduction to spectrophotometry. Typically offered Fall and Spring.	8-17
ENVR SCI	102	New	--N/A--	[PSCI] Natural Resources and Natural Hazards 3 Course Prerequisite: MATH 103 or higher with a C or better, or a minimum ALEKS math placement score of 45%. Survey of key natural resources, the physical processes by which nature and society produce those resources, and the processes of related natural hazards. Typically offered Fall.	8-17
HISTORY	232	New	--N/A--	[ARTS] The Mexican Revolution and the Arts 3 The history of the Mexican Revolution 1910-1920 and its influence on the Arts from 1920-1940.	8-17
MECH	435	New	--N/A--	Introduction to Microfluidics 3 Course Prerequisite: MATH 315; MECH 303. Overview of microfluidics, scaling laws, intermolecular forces, surface tension, passive scalar transport, electrowetting, electrokinetics, dielectrophoresis, microfabrication. Typically offered Fall.	8-17
MECH	477	New	--N/A--	Manufacturing for Polymer Composites 3 Course Prerequisite: MECH 309.	8-17

				<p>Polymeric materials and their composites; various manufacturing processes; transport phenomena in composite manufacturing; process modeling and design. Typically offered Fall.</p>	
PHARDSCI	547	New	--N/A--	<p>Drug Development 2 Course Prerequisite: PHARMACY 516. Principles of drug design from the most initial stage of conception to the final product as a drug. Typically offered Spring. H, S, F grading.</p>	1-17
SDC	495	New	--N/A--	<p>Seminar in Design and Construction 3 May be repeated for credit; cumulative maximum 12 hours. Course Prerequisite: ARCH 203 with a C or better, I D 203 with a C or better, or LND ARCH 263 with a C or better; or graduate standing. Interdisciplinary exploration of issues, projects, and research relevant to the field of design and construction. Typically offered Fall, Spring, and Summer.</p>	5-17