UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 6
Fall 2016

Faculty Senate approved January 26, 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
BIOLOGY / SCIENCE	**103**	**Revise**	**~~[BSCI]~~ Science and Scientific Thinking** 1 (0-3) Exploring science as a tool for understanding nature using case studies, experimentation, and data analysis. Topics range from atoms to ecosystems including physiology, inheritance, and the carbon cycle. Credit not granted towards elective requirements for majors in the School of Biological Sciences. Recommended for students with an ALEKS math placement score of less than 45%. Typically offered Fall.	**Science and Scientific Thinking** 1 (0-3) Exploring science as a tool for understanding nature using case studies, experimentation, and data analysis. Topics range from atoms to ecosystems including physiology, inheritance, and the carbon cycle. Credit not granted towards elective requirements for majors in the School of Biological Sciences. Recommended for students with an ALEKS math placement score of less than 45%. (Crosslisted course offered as BIOLOGY 103, SCIENCE 103). Typically offered Fall.	**8-17**
BIOLOGY / TCH LRN	**431**	**New**	**--N/A--**	**Methods of Teaching Secondary Science II** 3 Course Prerequisite: BIOLOGY/TCH LRN 430; junior standing. Integration of assessment, curricular, and technological tools into instruction that aligns with learning theory and the philosophy/structure of science. (Crosslisted course offered as BIOLOGY 431, TCH LRN 431). Typically offered Spring.	**8-17**
CHEM	**426**	**Revise**	**Quantitative Instrumental Analysis Laboratory** 2 (0-6) Course Prerequisite: CHEM 425 with a C or better or concurrent enrollment. Laboratory	**[M] Quantitative Instrumental Analysis Laboratory** 2 (0-6) Course Prerequisite: CHEM 425 with a C or better or concurrent enrollment. Laboratory	**8-17**

			experience in modern analytical methods. Typically offered Fall.	experience in modern analytical methods. Typically offered Fall.	
CPT S	**411**	**New**	**--N/A--**	**Introduction to Parallel Computing** 3 Course Prerequisite: CPT S 215, 223, or 233, with a C or better; certified major in Computer Science, Computer Engineering, Data Analytics, Electrical Engineering, or Software Engineering. Fundamental principles of parallel computing, parallel programming experience on multicore machines and cluster computers, and design of algorithms and applications in parallel computing. Recommended preparation: CPT S 350. Typically offered Fall.	**8-17**
CST M	**484**	**New**	**--N/A--**	**Temporary Structures** 3 Course Prerequisite: ARCH 252 or CE 330; certified major in Civil Engineering, Construction Engineering, Construction Management, or Architecture. Temporary structures including formwork, falsework, soldier pile and lagging, sheet pile, cofferdam, scaffolding, underpinning, bracing and guying, air domes, and others. Typically offered Fall.	**8-17**
DTC	**104**	**New**	**--N/A--**	**Digital Foundations** 1 Foundational computing skills: hardware, file management, common operating systems and applications, library resources, and professionalization. Typically offered Fall.	**8-17**
FS	**406**	**Revise**	**Evaluation of Dairy Products I** ~~1~~ Identifying ~~defects in~~ dairy products ~~and relating these defects to their~~ probable cause~~; remedies~~. Typically offered Spring. Cooperative: Open to UI degree-seeking students.	**Evaluation of Dairy Products** 2 Course Prerequisite: FS 110. Identifying attributes of different dairy products caused by production, processing, and storage issues; determining probable cause of those attributes and how to reduce their occurrence. Recommended preparation: FS 329; FS 429; FS	**1-18**

				430. Typically offered Spring. Cooperative: Open to UI degree-seeking students.	
FS	**407**	**Restore**	**--N/A--**	**Evaluation of Dairy Products Lab** 1 (0-3) May be repeated for credit; cumulative maximum 2 hours. Course Prerequisite: FS 406 or concurrent enrollment. Identifying defects in dairy products and intense training for Collegiate Dairy Products Evaluation competition. Typically offered Spring. Cooperative: Open to UI degree-seeking students. S, F grading.	**8-17**
LND ARCH	**490**	**New**	**--N/A--**	**Cooperative Education Internship** 4 May be repeated for credit; cumulative maximum 8 hours. Course Prerequisite: LND ARCH 363. Off-campus cooperative education internship with a design firm/business, non-profit organization, industry, or government unit. Typically offered Fall.	**8-17**
MECH	**439**	**New**	--N/A--	**Foundations of Aerodynamics** 3 Course Prerequisite: MATH 315; MECH 303. Governing equations of fluid mechanics, potential flow, introduction to aerodynamics, thin airfoil theory, compressible flow, viscous effects. Typically offered Fall.	**8-17**
MED CLIN		**New**	**--N/A--**	**New Subject/Prefix: "MED CLIN"** for Medical Clinical Clerkship; ESF College of Medicine	**8-17**
MED FMS		**New**	**--N/A--**	**New Subject/Prefix: "MED FMS"** for Foundations of Medical Science; ESF College of Medicine.	**8-17**
MED LMH		**New**	**--N/A--**	**New Subject/Prefix: "MED LMH"** for Leadership in Medicine and Healthcare; ESF College of Medicine.	**8-17**
PE ACTIV	**212**	**New**	**--N/A--**	**Intermediate Weight Training** 1 (0-2) hours. A, S, F grading.	**1-17**

PHARMACY	**599**	**Revise**	**Special Projects** 2 May be repeated for credit; cumulative maximum ~~4~~ hours. Laboratory research, clinical research, or comprehensive review of selected subjects. Typically offered Fall and Spring. H, S, F grading.	**Special Projects** 2 May be repeated for credit; cumulative maximum 10 hours. Laboratory research, clinical research, or comprehensive review of selected subjects. Typically offered Fall and Spring. H, S, F grading.	**8-17**