

**UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 3  
Fall 2014**

**---COURSES---**

**Faculty Senate Approved November 20, 2014**

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>CHEM</b>	<b>485</b>	<b>New</b>	<b>--N/A--</b>	<b>[CAPS] Senior Thesis in Chemistry</b> 3 Course Prerequisite: Certified major in Chemistry; senior standing. Required capstone course for chemistry majors culminating in the development of a written research thesis.	<b>8-15</b>
<b>CPT S</b>	<b>350</b>	<b>Revise</b>	<b>Design and Analysis of Algorithms</b> 3 Course Prerequisite: CPT S 223 with a C or better; CPT S 317 with a C or better; certified major in Computer Science, Computer Engineering, or Electrical Engineering. Analysis of data structures and algorithms; computational complexity and design of efficient data-handling procedures.	<b>(450) Design and Analysis of Algorithms</b> 3 Course Prerequisite: CPT S 223 with a C or better; CPT S 317 with a C or better; certified major in Computer Science, Computer Engineering, or Electrical Engineering. Analysis of data structures and algorithms; computational complexity and design of efficient data-handling procedures.	<b>8-15</b>
<b>E M</b>	<b>401</b>	<b>New</b>	<b>--N/A--</b>	<b>Management of Organizations</b> 3 Exploration of issues related to individual behavior in work organizations, including motivation, leadership, team-building, and team management skills. Credit not granted for both E M 401 and 501. Typically offered: Spring.	<b>8-15</b>
<b>E M</b>	<b>403</b>	<b>New</b>	<b>--N/A--</b>	<b>Managing Variability Using Statistics</b> 3 Managing variability and uncertainty using statistics for engineering decision-making involving risk. Credit not granted for both E M 403 and 503. Typically offered: Spring.	<b>8-15</b>
<b>E M</b>	<b>420</b>	<b>New</b>	<b>--N/A--</b>	<b>Contract Project Management</b> 3 Contract project bids, proposals,	<b>8-15</b>

				contracts, project delivery/organization; estimating, scheduling, resource loading, project monitoring and controls, safety and quality. Credit not granted for both E M 420 and 520. Typically offered: Spring.	
E M	422	New	--N/A--	<b>Leadership, Supervision, and Management</b> 3 Strategies of supervision with practical application techniques presented to create individual and organizational motivation. Credit not granted for both E M 422 and 522. Typically offered: Fall.	8-15
E M	438	New	--N/A--	<b>Lean Agility</b> 3 Integration of the best of Lean, Six Sigma, and Theory of Constraints to accelerate the continuous improvement process. Credit not granted for both E M 438 and 538. Typically offered: Fall.	8-15
E M	470	New	--N/A--	<b>Six Sigma Quality Management</b> 3 Quality management programs, quality assurance, statistical quality control concepts, and product design reliability. Credit not granted for both E M 470 and 570. Typically offered: Fall.	8-15
ENTOM	102	Revise	<del>[BSCI] [B] Entomology in Human Health</del> 3 Arthropods and their role in the transmission of human diseases; major arthropod vectored diseases.	<b>[BSCI] Insects, Infection and Illness: Medical Entomology for Non-Science Majors</b> 4 (3-3) <u>Multidisciplinary aspects of infectious disease caused by insect transmission of pathogens.</u>	1-15
NEUROSCI	333	New	--N/A--	<b>Techniques and Experimental Design in Neuroscience Research</b> 4 (3-3) Course Prerequisite: NEUROSCI 301; MATH 140 or 171; MATH 360 or concurrent enrollment, MATH 370 or concurrent enrollment, PSYCH 311 or concurrent enrollment, STAT 212 or concurrent enrollment, or STAT 412 or concurrent enrollment. Representative modern neuroscience experiments are explored from a conceptual, technical, and design perspective. Typically offered: Spring.	8-15

TCH LRN	307	Revise	<del>Survey of Children's Literature 2 Course</del> Prerequisite: For candidates admitted to teacher education (elementary education). Types, values, selection of children's literature; role of teacher in facilitating children's experiences with books.	<u>Survey of Children's Literature 3 (2-2)</u> Types, values, selection of children's literature; role of teacher in facilitating children's experiences with books. Typically offered: Fall and Spring.	8-15
TCH LRN	465	Revise	<del>Culture and Community Contexts of Education 3</del> Cultural and community-based contexts of schooling, teaching and education.	<u>Teaching English Language Learners for Secondary Teachers 3 Course</u> Prerequisite: Admission to secondary education program. Practical knowledge for teaching ELL students in a variety of instructional contexts.	1-15
TCH LRN	467	Revise	<del>[M] Diversity, Classroom Life and Management 3</del> Course Prerequisite: TCH LRN 317. Diversity, community building and classroom management and their interrelationships in secondary schools, and educational/legal issues on physical/sexual abuse.	<u>[M] Adolescence, Community, and School 3 Course</u> Prerequisite: TCH LRN 464; TCH LRN 465; admission to secondary education program. Understanding the socio-cultural dynamics of adolescence and youth cultures and the roles they play in secondary schools.	1-15
TCH LRN	470	Revise	<del>ESL/Special Education Methods for Secondary Teachers 3 Course</del> Prerequisite: TCH LRN 317. Methods for teaching second language learners and students with special needs in the secondary school classroom.	<u>Special Education, Transition, and Classroom Management for Secondary General Education Teachers 3 Course</u> Prerequisite: TCH LRN 464; TCH LRN 465; admission to secondary education program. Overview of special education topics, transition practices, and classroom management techniques for general education classrooms.	1-15
VET MED	571	Revise	<del>Theriogenology 4 (3-3)</del> Course Prerequisite: Veterinary Medicine student. Diagnosis, symptomatology, and treatment of reproductive disorders. S, M, F grading.	<u>Theriogenology 3 Course</u> Prerequisite: Veterinary Medicine student. Diagnosis, symptomatology, and treatment of reproductive disorders. S, M, F grading.	1-15
VET MED	575	New	--N/A--	<u>Clinical Techniques in Theriogenology 1 (0-3) Course</u> Prerequisite: Concurrent enrollment in VET MED 571. Canine, bovine, equine, bull breeding, stallion breeding, and obstetrics. S, M, F grading.	1-15