

**GRADUATE MAJOR CHANGE BULLETIN NO. 11**

**Spring 2017**

**Faculty Senate approved April 13, 2017**

The courses listed below reflect the graduate major curricular changes approved by the Catalog Subcommittee and the Graduate Studies Committee since approval of the last Graduate Major Change Bulletin. All new and revised courses are printed in their entirety under the headings Proposed and Current, respectively. The column to the far right indicates the date each change becomes effective.

<b>Subject</b>	<b>Course Number</b>	<b>New Revise Correction</b>	<b>Current</b>	<b>Proposed</b>	<b>Effective Date</b>
AMDT	509	New	--N/A--	<b>Technical Apparel Design 3</b> (0-6) Advanced understanding of technical applications in apparel production, development, and construction related to modern manufacturing. Credit not granted for both AMDT 409 and 509. Typically offered Fall.	<b>8-17</b>
ANTH	571	New	--N/A--	<b>Stable Isotope Analysis in Anthropology 4</b> (3-3) Lab and seminar course on stable isotope applications, methods, and interpretations within the field of Anthropology. Typically offered Even Years - Spring.	<b>1-18</b>
ANTH	572	New	--N/A--	<b>Residue Analysis and Experimental Archaeology 4</b> (3-3) The science of archaeological residues, identification of organic and inorganic compounds, method and theory of interpretation, experimental archaeology, ethnoarchaeology. Typically offered Even Years - Fall.	<b>1-18</b>
CE	564	New	--N/A--	<b>Numerical Methods 3</b> Numerically assisted solution of linear and nonlinear systems of equations with an emphasis on environmental applications. Eulerian and Lagrangian solutions of systems of steady-state and transient partial differential equations including various flow, transport, and geochemical problems; fundamentals of parallel solution techniques. Recommended	<b>1-18</b>

				preparation: fluid mechanics, differential equations, and basic knowledge of computer programming. Typically offered Spring.	
<b>CPT S/ CS</b>	<b>565</b>	<b>Correction</b>	<b>File and Storage Systems 3</b> Design and implementation of file and storage systems, introduction of the architecture and characteristics of the components on which storage systems are built. ( <del>Crosslisted course offered as CPT S 565, CS 561</del> ). Typically offered Spring.	<b>File and Storage Systems 3</b> Design and implementation of file and storage systems, introduction of the architecture and characteristics of the components on which storage systems are built. Typically offered Spring.	<b>8-17</b>
<b>CSSTE</b>	<b>800</b>	<b>Correction</b>	<b>Doctoral Research, Dissertation, and/or Examination V 1-18</b> May be repeated for credit. Course Prerequisite: Admitted to the <del>Business Administration–Accounting</del> PhD program. Independent research and advanced study for students working on their doctoral research, dissertation and/or final examination. Students must have graduate degree-seeking status and should check with their major advisor/committee chair before enrolling for 800 credit. Typically offered Fall, Spring, and Summer. S, U grading.	<b>Doctoral Research, Dissertation, and/or Examination V 1-18</b> May be repeated for credit. Course Prerequisite: Admitted to the <u>Cultural Studies and Social Thought in Education</u> PhD program. Independent research and advanced study for students working on their doctoral research, dissertation and/or final examination. Students must have graduate degree-seeking status and should check with their major advisor/committee chair before enrolling for 800 credit. Typically offered Fall, Spring, and Summer. S, U grading.	<b>8-17</b>
<b>E M</b>	<b>587</b>	<b>New</b>	--N/A--	<b>Managing Work Design for Safety and Productivity 3</b> An integrated approach to time-and-motion studies, human factors, and ergonomics to design work that simultaneously improves both productivity and safety. Typically offered Odd Years - Fall.	<b>8-17</b>
<b>ED RES</b>	<b>573</b>	<b>NEW</b>	--N/A--	<b>Psychophysiological Measurement I 3</b> Overview of principles, theory, and applications of psychophysiological assessment. Typically offered Fall.	<b>8-17</b>
<b>ED RES</b>	<b>574</b>	<b>NEW</b>	--N/A--	<b>Psychophysiological Measurement II 3</b> Overview of principles, theory, and applications	<b>8-17</b>

				of psychophysiological assessment. Typically offered Spring.	
MIT	511	New	--N/A--	<b>Methods for Teaching English Language Learners, K-12 2</b> Course Prerequisite: Admission to MIT Program. Research-based ESL strategies, methods, and practical knowledge that pre-service teachers can apply in a variety of instructional contexts to insure the success of minority students from diverse linguistic and cultural backgrounds. Typically offered Fall.	1-18
<u>MIT</u>	<u>533</u>	Revise	<b>Elementary School Mathematics Methods 3</b> Course Prerequisite: <del>For candidates admitted to MIT.</del> Introduction to research, theory, and methods of teaching K-8 mathematics; emphasis on integrating theory and practice. Typically offered Fall.	<b>(TCH LRN 564) Elementary School Mathematics Methods 3</b> Course Prerequisite: <u>Admission to MIT Program.</u> Introduction to research, theory, and methods of teaching K-8 mathematics; emphasis on integrating theory and practice. Typically offered Fall.	1-18
SPEC ED	571	Revise	<del><b>Prevention and Remediation of Reading Disabilities 3</b></del> <del>Theoretical concepts, research, and strategies of reading assessment and instruction for students with disabilities. Required preparation must include completion of an introductory special education course, or SPEC ED 520; or permission of instructor.</del> Typically offered Spring and Summer.	<b><u>Effective Assessment and Instruction in Reading for Diverse Learners 3</u></b> <u>Methods and approaches to reading assessment and designing, implementing evidence-based reading interventions. Credit not granted for both SPEC ED 471 and 571.</u> Typically offered Spring and Summer.	5-17
STAT	800	Correction	<b>Doctoral Research, Dissertation, and/or Examination V 1-18</b> May be repeated for credit. Course Prerequisite: Admitted to the <del>Business Administration–Accounting</del> PhD program. Independent research and advanced study for students working on their doctoral research, dissertation and/or final examination. Students must have graduate degree-seeking	<b>Doctoral Research, Dissertation, and/or Examination V 1-18</b> May be repeated for credit. Course Prerequisite: Admitted to the <u>Statistical Science</u> PhD program. Independent research and advanced study for students working on their doctoral research, dissertation and/or final examination. Students must have graduate degree-seeking status and should check with their major advisor/committee chair before enrolling for 800 credit.	8-17

			status and should check with their major advisor/committee chair before enrolling for 800 credit. Typically offered Fall, Spring, and Summer. S, U grading.	Typically offered Fall, Spring, and Summer. S, U grading.	
<b>TCH LRN</b>	<b>501</b>	<b>Revise</b>	<b>Bilingual/ESL Education 3</b> May be repeated for credit; cumulative maximum 6 hours. Work with students from diverse linguistic and cultural backgrounds in educational settings. Typically offered Spring.	<b><u>Practicum in Bilingual/ESL Education 3 (1-6)</u></b> May be repeated for credit; cumulative maximum 6 hours. <u>Course Prerequisite: For candidates admitted to teacher education (elementary education or secondary education).</u> Work with students from diverse linguistic and cultural backgrounds in educational settings. <u>Credit not granted for both TCH LRN 401 and 501.</u> Typically offered <u>Fall and Spring.</u>	<b>8-17</b>