

**GRADUATE MAJOR CHANGE BULLETIN NO. 6**

**Spring 2019**

**Faculty Senate approved January 24, 2019**

The courses listed below reflect the graduate major curricular changes approved by the Graduate Studies Committee since approval of the last Graduate Major Change Bulletin. The course information under the heading titled *Current* will show strikethroughs for deletions, and the heading titled *Proposed* will show underlines for additions. 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>ATH T</b>	<b>591</b>	<b>New</b>	<del>--N/A--</del>	Athletic Training Clinical Internship I 2 May be repeated for credit; cumulative maximum 4 hours. Course Prerequisite: Certified in Athletic Training Professional Program. Beginning techniques in management of sport injury/illness under supervision. Typically offered Fall and Spring.	<b>8-19</b>
<b>CROP SCI / SOIL SCI</b>	<b>506</b>	<b>New</b>	<del>--N/A--</del>	Research Presentations 2 Learn and practice skills needed to prepare and effectively present scientific information orally to a range of audiences in a variety of formats and technologies. (Crosslisted course offered as CROP SCI 506; SOIL SCI 506). Typically offered Fall.	<b>8-19</b>
<b>MATH</b>	<b>524</b>	<b>New</b>	<del>--N/A--</del>	Algebraic Topology 3 Algebraic techniques (groups, homomorphisms, etc) to study connectivity of spaces; topics include simplicial complexes, homology, relative homology, Meyer-Vietoris sequences, categories and functors, cohomology, and duality in manifolds. Recommended preparation: real analysis and abstract algebra. Typically offered Fall.	<b>8-19</b>
<b>MATH</b>	<b>529</b>	<b>New</b>	<del>--N/A--</del>	Computational Topology 3 Topological techniques combined with algorithms to find structure in data; simplicial complexes from point clouds, algorithms for homology and persistent homology, mapper and topological data analysis, optimal homology problems. Recommended preparation: mathematical maturity at senior undergraduate level and some experience with computer programming. Typically offered Spring.	<b>8-19</b>
<b>ME</b>	<b>701</b>	<b>New</b>	<del>--N/A--</del>	Master's Independent Capstone Project and /or Examination V 1-6 May be repeated for credit. Capstone project or final examination for professional master's degree under the Graduate School. The credits will include a balloted evaluation of the student's completion of the program's capstone/examination requirements by the program's graduate faculty. Students must have graduate degree-seeking status and obtain approval from their major advisor/committee chair before enrolling for 701 credit. S, U grading.	<b>1-19</b>

<b>MSE</b>	<b>701</b>	<b>New</b>	<b>--N/A--</b>	<p>Master's Independent Capstone Project and /or Examination V 1-6 May be repeated for credit. Capstone project or final examination for professional master's degree under the Graduate School. The credits will include a balloted evaluation of the student's completion of the program's capstone/examination requirements by the program's graduate faculty. Students must have graduate degree-seeking status and obtain approval from their major advisor/committee chair before enrolling for 701 credit. S, U grading.</p>	<b>1-19</b>
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