# GRADUATE MAJOR CHANGE BULLETIN NO. 4

**Fall 2023**

Faculty Senate approved February 1, 2024

Course information under the heading titled *Current* will show strikethroughs for deletions, and text under *Proposed* will show underlines for additions. The column to the far right indicates the date each change becomes effective.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Number</th>
<th>New Revise</th>
<th>Current</th>
<th>Proposed</th>
<th>Effective Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOMDSCI</td>
<td>544</td>
<td>New</td>
<td>--N/A--</td>
<td>Fundamentals of Proposal Writing and Oral Presentations 2 Course</td>
<td>8-24</td>
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<tr>
<td></td>
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<td></td>
<td>Prerequisite: BIOMDSCI 563. Enhancement of scholarly competencies in written and oral scientific communication, particularly as they apply to the development of biomedical research and scientific research grant proposals. Typically offered Fall.</td>
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<tr>
<td>BIOMDSCI</td>
<td>552</td>
<td>New</td>
<td>--N/A--</td>
<td>Statistical Thinking 1 Core concepts, methods, and skills for reasoning about data, how it is obtained, and how to use statistics to interrogate data and build an understanding of the world around us. Typically offered Fall.</td>
<td>1-25</td>
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<tr>
<td>BIOMDSCI</td>
<td>555</td>
<td>New</td>
<td>--N/A--</td>
<td>Advances in Immunology and Microbiology Seminar Series 1 May be repeated for credit; cumulative maximum 2 credits. Seminars given by visiting scholars, faculty, post-docs and graduate students; development of scientific communication skills for trainees affiliated with the Immunology and Infectious Disease (IID) doctoral program. Typically offered Fall and Spring. S, F grading.</td>
<td>8-24</td>
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<tr>
<td>ED PSYCH</td>
<td>512</td>
<td>New</td>
<td>--N/A--</td>
<td>Data Management and Visualization 2 The art and science of displaying and summarizing relationships, identifying patterns, trends, and distributions in datasets. Typically offered Summer Session.</td>
<td>5-24</td>
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<tr>
<td>ED PSYCH</td>
<td>519</td>
<td>New</td>
<td>--N/A--</td>
<td>Teaching in Higher Education 3 Overview of the knowledge, skills, and dispositions needed to become an</td>
<td>1-25</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
<td>Notes</td>
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<tr>
<td>ED PSYCH 523</td>
<td>Multimedia Learning</td>
<td>3</td>
<td>Course Prerequisite: ED PSYCH 502. Metacognitive and motivational factors of learning; design principles for multimedia learning from the theories and research in cognitive psychology and the learning sciences. Typically offered Spring.</td>
<td>1-25</td>
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<tr>
<td>ED PSYCH 524</td>
<td>Conceptual Change</td>
<td>3</td>
<td>Examination of the theoretical, psychological, conceptual, and pedagogical means by which students come to think differently about conceptual knowledge. Typically offered Fall.</td>
<td>8-24</td>
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<tr>
<td>MATH 589</td>
<td>Topics in Analysis V</td>
<td>1-3</td>
<td>Course May be repeated for credit. Advanced topics in mathematical analysis. Recommended preparation: one semester of graduate analysis. Typically offered Spring.</td>
<td>8-24</td>
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<tr>
<td>PHARMEDS 544</td>
<td>Toxicology: Assessing Drug Side Effects</td>
<td>3</td>
<td>Introduction to toxicology, with an emphasis on the side effects of drugs used to treat human disease. Credit not granted for both PHARMEDS 444 and PHARMEDS 544. Offered at 400 and 500 level. Typically offered Fall.</td>
<td>8-24</td>
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