

# Science, Technology, Engineering, and Mathematics (STEM)

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**STEM 303. The Science of Learning. 1 Credit.**

This course is designed for students serving as Learning Assistants in the College of Science and Mathematics and who are interested in the science behind learning in the STEM disciplines.

**STEM 494. Individual Study. 1-5 Credits.****STEM 790. Graduate Seminar. 1-5 Credits.****STEM 795. Field Experience. 1-15 Credits.****STEM 810. Teaching College Science. 3 Credits.**

This course is designed for graduate students in the sciences who are interested in learning more about science teaching and student learning at the undergraduate level.

**STEM 820. STEM Curriculum and Instruction. 3 Credits.**

This course focuses on research on assessment and curricula designed to identify and address conceptual and reasoning difficulties of students in math and science. A variety of assessments and research-based curricula will be used and critically analyzed. Issues related to challenges of implementing reform-based curricula will also be discussed.

**STEM 830. Research Methods in STEM Education. 3 Credits.**

Course covers an array of research methods that are commonly used within discipline-based education research literature and discusses those methods within the framework of the primary literature of those disciplines.

**STEM 840. Designing Technology-infused Learning Environments in Higher Education. 3 Credits.**

This course will prepare current and future college-level instructors to effectively infuse appropriate technology tools into contemporary higher education learning environments.

**STEM 890. Graduate Seminar. 1-5 Credits.****STEM 893. Individual Study/Tutorial. 1-5 Credits.**