



# STEMTeach KU

## Physics

Do you love learning and talking about science and mathematics? Do you want to develop your leadership and public speaking skills and gain volunteer experience? If so, **STEMTeach KU** might be right for you!

**STEMTeach KU** is for people who definitely want to teach, have never thought about teaching before, but are now curious, or have no interest in teaching but want to acquire leadership, public speaking, and volunteer experience. Students will major in Physics or a related STEM field within the College of Liberal Arts and Sciences while completing teacher preparation coursework and student teaching experiences.

### Coursework

#### Teacher Preparation

- C&T 290: Approaches to Teaching Science & Mathematics I
- C&T 291: Approaches to Teaching Science & Mathematics II
- C&T 360: Knowing & Learning in Mathematics & Science
- C&T 366: Classroom Interactions in Mathematics & Science
- C&T 448: Reading & Writing Across the Curriculum
- HIST 363: Perspectives on Science, Engineering, & Mathematics (or HIST 510: Topics in Non-Western History)
- C&T 460: Project Based Instruction in Mathematics & Science
- CHEM 598: Research Methods
- C&T 490: Student Teaching
- C&T 495: Seminar: Developing the Teaching Portfolio

#### Physics Content

- MATH 125: Calculus I
- MATH 126: Calculus II
- MATH 127: Calculus 3 (recommended)
- MATH 220: Applied Differential Equations (or MATH 320: Elementary Differential Equations)
- MATH 290: Elementary Linear Algebra
- PHSX 210: General Physics I for Engineers (or PHSX 211: General Physics I)
- PHSX 216: General Physics I Lab
- PHSX 212 & 236: General Physics II + Lab
- PHSX 313 & 316: General Physics III + Intermediate Physics Lab I
- PHSX 616: Physical Measurements
- PHSX 536: Electronic Circuit Measurement & Design (or PHSX 601)

### Other Requirements

- o 2.75 KU + Transfer Cumulative GPA
- o 2.5 Content GPA
- o This program is designed to be completed along with an approved BS or BA degree to fulfill the requirements necessary for the STEMTeach KU Certificate in your desired area of licensure. The program is also designed to fulfill the course requirements necessary to gain state licensure eligibility in the above mentioned areas of licensure to become a secondary teacher in Kansas, but completion of the program does not guarantee the student's licensure. Please consult with your major advisor for further information about meeting your degree/major requirements.

#### Questions?

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Physics STEM Advisor

