The Secondary STEM Education program emphasizes the content knowledge needed for secondary STEM teachers to be successful. Earn a double major in STEM Education and content major (i.e., mathematics, physics, chemistry, earth science, physical science, computer science) with secondary teaching certification (grades 8-12) in one or more state-certifiable STEM subjects in just 4 years (120 credit hours).

### Freshman Year

**FALL SEMESTER**
- UK Core - Comp. & Comm. I - 3
- MA 113 - CALCULUS I - 4
- PSY 100 - INTRODUCTION TO PSYCHOLOGY - 4
- CHE 105 - GENERAL COLLEGE CHEMISTRY I - 4
- CHE 111 - GENERAL CHEMISTRY I LABORATORY - 1

**SPRING SEMESTER**
- MA 114 - CALCULUS II - 4
- UK Core - Comp. & Comm. II - 3
- CHE 107 - GENERAL COLLEGE CHEMISTRY II - 3
- CHE 113 - GENERAL CHEMISTRY II LABORATORY - 2
- SEM 110 - INTRODUCTION TO STEM EDUCATION - 2
- UK Core - Global Dynamics - 3

**Total Freshman Hours: 33**

### Sophomore Year

**FALL SEMESTER**
- CHE 230 - ORGANIC CHEMISTRY I - 3
- CHE 231 - ORGANIC CHEMISTRY LABORATORY I - 1
- PHY 211 - GENERAL PHYSICS - 5
- STA 296 - STATISTICAL METHODS AND MOTIVATIONS - 3
- EDP 202 - HUMAN DEVELOPMENT AND LEARNING - 3

**SPRING SEMESTER**
- CHE 226 - ANALYTICAL CHEMISTRY - 3
- CHE 232 - ORGANIC CHEMISTRY II - 3
- CHE 233 - ORGANIC CHEMISTRY LABORATORY II - 1
- PHY 213 - GENERAL PHYSICS - 5
- EPE 301 - EDUCATION IN AMERICAN CULTURE - 3

**Total Sophomore Hours: 30**

### Junior Year

**FALL SEMESTER**
- CHE 440G - INTRODUCTORY PHYSICAL CHEMISTRY - 3
- UK Core - Humanities - 3
- EDS 516 - PRINCIPLES OF BEHAVIOR MANAGEMENT AND INSTRUCTION - 3
- CHE Elective (300-599) 3 hours - 3
- Outside CHE Elective (300-599) 2 hours - 3
- CHE 372 - COMMUNICATION IN CHEMISTRY I - 1

**SPRING SEMESTER**
- SEM 421 - SURVEY OF SECONDARY MATHEMATICS CURRICULUM - 3
- CHE 441 - PHYSICAL CHEMISTRY LABORATORY - 2
- CHE Elective (300-599) 3 hours - 3
- EGR Requirement (3 hours) - 3
- Outside CHE Elective (300-599) 3 hours - 3
- STEM Electives (4 hours) - 4

**Total Junior Hours: 32**
### Senior Year

#### FALL SEMESTER
- UK Core - Arts and Creativity - **3**
- Any elective - **3**
- SEM 422 - STEM ED METHODS II - **3**
- CHE 472 - COMMUNICATION IN CHEMISTRY 2 - **1**
- Outside CHE Elective (300-599) 3 hours - **3**
- Outside CHE Elective (300-599) 2 hours - **3**

**TOTAL HOURS: 15**

**Total Senior Hours: 27**

#### SPRING SEMESTER
- SEM 423 - ASSESSMENT IN STEM EDUCATION - **2**
- SEM 435 - STEM STUD TEACHING IN SEC SCHOOL - **10**

**TOTAL HOURS: 12**

**Total Minimum hours Required for Degree: 120 hours**

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Current UK students: Please login to [http://myUK.uky.edu](http://myUK.uky.edu) to access your personalized major template and degree audit via the Graduation Planning System (GPS). This major template is the curriculum requirements for completion of the degree program only and is not a personalized audit based on your completed coursework. This major template does not reflect entrance requirements for selective majors. Please consult with the college to learn more about admission to this major.