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

**TOTAL HOURS: 16**

#### 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 HOURS: 17**

**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

**TOTAL HOURS: 15**

#### 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 HOURS: 15**

**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
- CHE 372 - COMMUNICATION IN CHEMISTRY 1 - 1

**TOTAL HOURS: 15**

#### 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 HOURS: 17**

**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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