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 - LABORATORY TO ACCOMPANY GENERAL CHEMISTRY I** - 1

**TOTAL HOURS: 16**

Total Freshman Hours: 33

#### 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**

### 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**

Total Sophomore Hours: 30

#### 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**

### 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

**TOTAL HOURS: 15**

Total Junior Hours: 32

#### 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**
### 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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