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
- **PHY 231 - GENERAL UNIVERSITY PHYSICS** - 4
- **PHY 241 - GENERAL UNIVERSITY PHYSICS LABORATORY** - 1

**TOTAL HOURS: 16**

#### SPRING SEMESTER
- **MA 114 - CALCULUS II** - 4
- **UK Core - Comp. & Comm. II** - 3
- **PHY 228 - OPTICS, RELATIVITY AND THERMAL PHYSICS** - 3
- **CHE 105 - GENERAL COLLEGE CHEMISTRY I** - 4
- **SEM 110 - INTRODUCTION TO STEM EDUCATION** - 2

**TOTAL HOURS: 16**

Total Freshman Hours: 32

### Sophomore Year

#### FALL SEMESTER
- **MA 213 - CALCULUS III** - 4
- **PHY 232 - GENERAL UNIVERSITY PHYSICS** - 4
- **PHY 335 - DATA ANALYSIS FOR PHYSICISTS** - 2
- **CHE 107 - GENERAL COLLEGE CHEMISTRY II** - 3
- **EDP 202 - HUMAN DEVELOPMENT AND LEARNING** - 3

**TOTAL HOURS: 16**

#### SPRING SEMESTER
- **PHY 306 - THEORETICAL METHODS OF PHYSICS** - 3
- **PHY 361 - PRINCIPLES OF MODERN PHYSICS** - 3
- **STA 296 - STATISTICAL METHODS AND MOTIVATIONS** - 3
- **UK Core - Global Dynamics** - 3
- **EPE 301 - EDUCATION IN AMERICAN CULTURE** - 3

**TOTAL HOURS: 15**

Total Sophomore Hours: 31

### Junior Year

#### FALL SEMESTER
- **STEM Electives (3 hours)** - 3
- **EGR Requirement (3 hours)** - 3
- **EDS 516 - PRINCIPLES OF BEHAVIOR MANAGEMENT AND INSTRUCTION** - 3
- **AST 310 - TOPICS IN ASTRONOMY AND ASTROPHYSICS (SUBTITLE REQUIRED)** - 3

**TOTAL HOURS: 15**

#### SPRING SEMESTER
- **UK Core - Humanities** - 3
- **SEM 421 - SURVEY OF SECONDARY MATHEMATICS CURRICULUM** - 3
- **PHY 401G - SPECIAL TOPICS IN PHYSICS AND ASTRONOMY FOR** - 1
- **PHY 460G - HANDS-ON PHYSICS FOR MIDDLE SCHOOL AND HIGH SCHOOL TEACHERS** - 2
- **EDC 533 - TEACHING LITERACY ACROSS THE DISCIPLINES** - 3

**TOTAL HOURS: 16**

Total Junior Hours: 31
Senior Year

**FALL SEMESTER**
- STEM Electives (3 hours) - 3
- Any elective - 3
- SEM 422 - STEM ED METHODS II - 3
- PHY 460G - HANDS-ON PHYSICS FOR MIDDLE SCHOOL AND HIGH SCHOOL TEACHERS - 2
- STEM Electives (3 hours) - 3

**TOTAL HOURS: 14**

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

**TOTAL HOURS: 12**

Total Senior Hours: 26

Total Minimum hours Required for Degree: 120 hours

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