### General Studies

Shall include courses and/or experiences in written composition, humanities, social studies, mathematics, and science.

- **EH 101** English Composition I OR AP cred (3)
- **EH 102** English Composition II (3)

A 6-hour sequence is required in either Literature (Area II) or History (Area IV). If the Literature sequence is chosen, the 2nd course in the series will count toward one of the Humanities elective. If they History sequence is chosen, the 2nd course will count toward a social/behavior science elective.

**Humanities:**

- Literature (See CAS Core Curriculum list) 3-6
- Fine Arts (See CAS Core Curriculum list) 3
- Three additional hours (See CAS Core Curriculum list) 3

**Social Science:**

- History (see CAS Core Curriculum List) 3
- Non-History Social Science (See CAS Core Curriculum List) 3-6
- PY 110 Introduction to Psychology 3

**Note:** Either History of Literature can be a sequence can be a sequence.

**Science:**

- Natural Sciences (lab required with each course)
  - CH 115/CH 116 General Chemistry I & Lab 4
  - CH 117/CH 118 General Chemistry II & Lab 4
  - CH 235 & 236 Organic Chemistry I and Lab 4
  - CH 237 & 238 Organic Chemistry II and Lab 4
  - ES 101/102 Physical Geology with Lab 4

**Mathematics:**

- MA 125 Calculus I 4
- MA 126 Calculus II 4
- MA 227 Calculus II 4
- MA 252 Introduction to Differential Equations 3

**Other:**

- PHL 275 or HY 275 Perspectives on Science and Mathematics 3

### Professional Studies

These courses must be taken prior to admission to TEP.

- EHS 125 Step 1: Inquiry Approaches to Teaching 1
- EHS 126 Step 2: Inquiry-Based Lesson Design 1
- EHS 325 Knowing and Learning in Science and Mathematics 3

These courses require admission to TEP before they can be taken.

- EHS 326 Classroom Interactions 3
- EHS 327 Project-Based Instruction 3

**Internship:**

Students must take EHS 425 and EHS 426 in the same term.

- EHS 425 Apprentice Teaching 6
- EHS 426 Apprentice Teaching Seminar 1

**SPECIAL NOTES:**

*To be eligible for Class B certification in chemistry, candidates will need to complete all courses on this checklist, meet Teacher Education Program requirements for certification, and complete all degree requirements for Biophysics.*

Prospective and admitted students should NOT begin any coursework without seeking advisement from the Office of Student Services (call: 205-934-7530) each term. Students who ignore this admonition assume responsibility for their own mistakes.

### Teaching Field

Must include an academic major of at least 32 semester hours with a minimum of 19 hours in the upper division. (List all courses required for the teaching field.)

See Attached Requirements

**Dean of Education:**

**Date:** 9-15-15
Class B General Science Education Program Checklist
Teaching Field Courses

Comprehensive Teaching Field Requirement: General Science shall include courses in biology, chemistry, Earth and space sciences, and physics.

Teaching Field Courses

Lower Division
CH 115/116 General Chemistry I and lab 4
CH 117/118 General Chemistry II and lab 4
BY 123 Introductory Biology I 4
BY 124 Introductory Biology II 4
PH 221 General Physics I
OR
PH 201 College Physics 4
PH 222 General Physics II
OR
PH 202 College Physics II 4
24 hours

Upper Division
PH 351 Modern Physics I 4
PH 352 Modern Physics II 4
BY 492 Research Methods 3
PH 432 Statistical Thermodynamics I 3
PH 499 Physics Capstone 3
At least seven hours of approved Physics Electives at the 400 level 7
24 hours