### CST Credit Requirements:

- **Total Credits**: 124
- **CLA/CLC Credits**: 90
- **Upper-Level (2000+) CST/CLA Credits**: 45

**Backtracking Rule**: Credit for courses 2 or more levels below previously completed coursework cannot be used towards the degree.

Admission to candidacy is required to complete this degree. This includes, but is not limited to, a 3.0 minimum GPA and a passing score in the PRAXIS 1/PAPA Teacher Certification Exam.

The B.S. with Teaching in Biology provides broad training in Biology, and prepares students for a career in secondary school teaching. Please note: PA Certification requires passing scores in the PRAXIS 1/PAPA and PRAXIS II Teacher Certification Exams.

**Recommended Sequence of Major Courses for Bachelor of Science**

<table>
<thead>
<tr>
<th>Course</th>
<th>TUID</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Calculus I: Math 1041</td>
<td>□ Cell Structure and Function: Bio 3096°F</td>
</tr>
<tr>
<td>□ General Chemistry I: Chem 1031</td>
<td>□ General Physics I: Physics 2021°F</td>
</tr>
<tr>
<td>□ General Chemistry Lab I: Chem 1033</td>
<td>□ TUteach Persp. on Science &amp; Math: Phil 2196°F</td>
</tr>
<tr>
<td>□ TUteach Step 1: CST 1189</td>
<td>□ Principles of Ecology: Bio 2227°F</td>
</tr>
<tr>
<td>□ Introduction to Biology: Bio 1111</td>
<td>□ General Physics II: Physics 2022°F</td>
</tr>
<tr>
<td>□ Calculus II: Math 1042</td>
<td>□ TUteach Research Methods: Bio 3091°F</td>
</tr>
<tr>
<td>□ General Chemistry II: Chem 1032</td>
<td>□ TUteach Differentiated Literacy Instruction in the Disciplines, 7-12: Secondary Ed 3796</td>
</tr>
<tr>
<td>□ General Chemistry Lab II: Chem 1034</td>
<td>□ Make an Appointment for a Graduation Review</td>
</tr>
<tr>
<td>□ TUteach Step 2: CST 1289</td>
<td>□ Biology elective numbered above 2200*</td>
</tr>
<tr>
<td>□ TUteach Knowing and Learning: Ed 2179</td>
<td>□ Biology elective numbered above 2200*</td>
</tr>
<tr>
<td>□ TUteach Recommended: Special Ed 2231</td>
<td>□ TUteach Project-Based Instruction: Math or Science Ed 4189°F</td>
</tr>
<tr>
<td>□ Genetics: Bio 2296$^5$</td>
<td>□ Biology elective numbered above 2200**</td>
</tr>
<tr>
<td>□ Organic Chemistry II: Chem 2202</td>
<td>□ TUteach Apprentice Teaching: Ed 4388</td>
</tr>
<tr>
<td>□ Organic Chemistry Lab II: Chem 2204</td>
<td>□ TUteach Apprentice Teaching Sem: Ed 4802</td>
</tr>
<tr>
<td>□ TUteach Classrm Interact: Math or Sci Ed 2189$^5$</td>
<td></td>
</tr>
</tbody>
</table>

**Placement**: Math: [ ] English: [ ] FL: [ ]

**Notes**:
- $^F$ Fall Only $^S$ Spring Only

Please check all pre- and co-requisites for courses before registering.

*Check course descriptions. Courses marked “Not available for biology major credit” cannot be used as electives.

The Undergraduate Bulletin is the official source for major requirements: www.temple.edu/bulletin.

**Suggested Courses**:

- [ ]
- [ ]
- [ ]
- [ ]
- [ ]

Revised Date: [ ]
Advisor Initials: [ ]

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**TUteach**

**Department of Biology**
255 Bio-Life Building 215-204-8851

**Program Directors**:
Dr. Tom Walker & Dr. Doug Baird

**Master Teacher/Faculty Advisor**:
Dr. Herbert Green

**Content Advisors**:
Dr. Joel Sheffield & Prof. Evelyn Vleck

**Academic Advisor**: Lisa Mathason
www.temple.edu/biology
### University Requirements
#### 2012-2013

**Appropriate University Curriculum:**
- Gen Ed Traditional
- Gen Ed 45+
- Gen Ed-to-Gen Ed

#### Gen Ed Curriculum

**Gen Ed Traditional:**
- □ Analytical Reading & Writing: Eng 0802
- □ Mosaic I: Intel Heritage 0851
- □ Mosaic II: Intel Heritage 0852
- □ US Society
- □ Human Behavior
- □ Arts
- □ Diversity and Race
- □ Global/World Society
- □ Quantitative Literacy
- □ Science and Technology
- **May be waived based on major courses**

**Bachelor of Arts (BA) Only**
- □ 2nd level of a Language

**Gen Ed 45+ (45 or more transfer credits):**
- □ Analytical Reading & Writing: Eng 0802
- □ Mosaic I or II: Intel Heritage 0851 or 0852
- □ US Society
- □ Human Behavior
- □ Arts
- □ Diversity and Race
- □ Global/World Society
- □ Quantitative Literacy
- □ Science and Technology
- **May be waived based on major courses**

**Bachelor of Arts (BA) Only**
- □ 2nd level of a Language

**Gen Ed-to-Gen Ed:**
- Transfer students with a pre-approved Associate’s degree from an institution that has an established transfer agreement with Temple have satisfied their GenEd requirements, with the following exception for BA students:
  - **Bachelor of Arts (BA) Only**
    - □ 2nd level of a Language

**Gen Ed online:**
- www.temple.edu/gened
- www.temple.edu/vpus/transfer/TransferGenEd.htm

**University Core:**
- Students who were admitted as freshmen prior to fall 2008, or were admitted as transfers prior to fall 2010, follow the University Core curriculum instead of the Gen Ed curriculum.

**Undergraduate Bulletin:**
- The Undergraduate Bulletin is the official reference for University Requirements at:
  - www.temple.edu/bulletin

**Note:**
- No more than two courses from the same department may be used to satisfy GenEd requirements. GenEd courses may not be used to satisfy major requirements.

**Date:** 
- Student: 
- Advisor:

**Note:** Students must complete at least 2 Writing-Intensive (WI) courses within the major, to be taken at Temple. These must be specific courses or course combinations within the major, or electives required for the major. These courses must be taken at Temple University. Writing-Intensive courses are numbered XX96, XX97, or XX98