# BIOLOGY with TEACHING 2009-2010

## CST Credit Requirements:
- A minimum of 124 total credits
- A minimum of 45 Upper Level (UL) within CST/CLA (College of Science & Technology/College of Liberal Arts)
- A minimum of 90 credits within CST/CLA
- A 3.0 grade point average is required to obtain a Pennsylvania teaching certificate
- The PRAXIS must be successfully completed in order to obtain a teaching certificate

## Bachelor of Science Recommended Sequence of Major Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester</th>
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<tbody>
<tr>
<td>Calculus I: Math 1041</td>
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<tr>
<td>General Chemistry I: Chem 1031</td>
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<tr>
<td>TUseach Step 1: CST 1189</td>
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<tr>
<td>Introduction to Biology: Bio 1111</td>
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<tr>
<td>Calculus II: Math 1042</td>
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<tr>
<td>General Chemistry II: Chem 1032</td>
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<tr>
<td>General Chemistry Lab II: Chem 1034</td>
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<td>TUseach Step 2: CST 1289</td>
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<tr>
<td>Introduction to Biology: Bio 2112</td>
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<td>Organic Chemistry I: 2201</td>
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<td>Organic Chemistry Lab I: 2203</td>
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<td>TUseach Knowing and Learning: Educ 2179</td>
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<td>Genetics: Bio 2296</td>
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<tr>
<td>Organic Chemistry II: 2202</td>
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<tr>
<td>Organic Chemistry Lab II: 2204</td>
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<tr>
<td>TUseach Classroom Interactions:</td>
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<tr>
<td>Math or Science Ed 2189</td>
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<tr>
<td>Cell Structure and Function: Bio 3096(^\text{F})</td>
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<tr>
<td>General Physics I: Physics 2021(^\text{F})</td>
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<td>TUseach Perspectives on Science and Math: Philos 3xxx</td>
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<tr>
<td>Principles of Ecology: Bio 2227(^\text{S})</td>
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<tr>
<td>General Physics II: Physics 2022(^\text{S})</td>
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<tr>
<td>TUseach Research Methods</td>
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<tr>
<td>TUseach Language &amp; Literacy in Math &amp; Science</td>
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<tr>
<td>Make an Appointment for a Graduation Review</td>
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<tr>
<td>Biology elective numbered above 2000(^\ast)</td>
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<tr>
<td>TUseach Project-Based Instruction:</td>
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<tr>
<td>Math or Science Ed 4189</td>
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<tr>
<td>Biology elective numbered above 2000(^\ast)</td>
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<tr>
<td>TUseach Apprentice Teaching</td>
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<tr>
<td>TUseach Apprentice Teaching Seminar</td>
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## Math Placement Results:
- Math 701
- Math 702
- Math 1021
- Math 1022
- Math 1041

## Suggested Courses:
- _______________________________________________________________________
- _______________________________________________________________________
- _______________________________________________________________________
- _______________________________________________________________________

## NOTES:
- \(^{F}\) = Fall Only  \(^{S}\) = Spring Only
- Students must check the pre- and co-requisites for all courses before registering.
- *See course descriptions for exceptions to Biology electives at [http://www.temple.edu/bulletin/ugrad bulletin/ucd/ucd toc.html](http://www.temple.edu/bulletin/ugrad bulletin/ucd/ucd toc.html)
- **Please refer to the bulletin for other elective options at [http://www.temple.edu/bulletin/Academic_programs/](http://www.temple.edu/bulletin/Academic_programs/)

<table>
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<tr>
<th>Name: ____________________________</th>
<th>TU ID: _______________________</th>
<th>Degree: BS</th>
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**Revised on July 1, 2009**
**University Requirements**

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

### Gen Ed Curriculum

**Freshman or Transfers w/ fewer than 45 credits:**
- □ Analytical Reading and Writing
- □ Mosaic I
- □ Mosaic II
- □ Quantitative Literacy
- □ Arts
- □ Human Behavior
- □ U.S. Society
- □ World Society
- □ Race and Diversity
- □ Science and Technology
- □ Science and Technology

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

**Note:** Gen Ed curriculum applies to all newly admitted freshman in Fall 2008 or after and for all transfer students admitted Fall 2010 and after.

### Core Curriculum

#### Traditional Core:
- □ English 802/812
- □ American Culture
- □ Arts
- □ Individual and Society
- □ Studies in Race
- □ Foreign Language 2nd level*
- □ Foreign Language 3rd level*
- □ International Studies*
- □ International Studies*
- □ Science and Technology (SA)
- □ Science and Technology (SB/GS)
- □ Quantitative Reasoning (QA/GQ)
- □ Quantitative Reasoning (QB/GQ)
- □ Intellectual Heritage 0851
- □ Intellectual Heritage 0852
- □ Writing Intensive Elective
- □ Writing Intensive Elective
- □ Writing Intensive in Major

**B.S.**
- 2 International Studies (IS/GG) or
- 2nd level of a language + 2 IS/GG or
- 3rd level of a language + 1 IS/GG or
- Exemption^ + 1 IS/GG

**B.A.**
- 1 International Studies (IS/GG) or
- 2nd level of a language + 1 IS/GG or
- Exemption^ + 1 IS/GG

#### Core 45+
- □ English 802/812
- □ American Culture
- □ Arts
- □ Individual and Society
- □ Studies in Race
- □ Foreign Language 2nd level*
- □ Foreign Language 3rd level*
- □ International Studies*
- □ International Studies*

**B.S.**
- 1 International Studies (IS/GG) or
- 2nd level of a language + 1 IS/GG or
- Exemption^ + 1 IS/GG

**B.A.**
- 2nd level of a language + 2 IS/GG or
- Exemption^ + 1 IS/GG

#### Core-to-Core:
- □ Writing Intensive Elective (Must be taken at Temple)
- □ Writing Intensive in Major (Must be taken at Temple)

**B.A.—Must follow the traditional core foreign language/IS/GG requirements**

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### English Placement Results:
English 701/711  English 802/812  Exempt

### Foreign Language Placement Results:
____________  1001  1002  1003  Exempt

All transfer students are required to complete the Library Skills Test (TILT) online at www.library.temple.edu.

Please consult with your assigned academic advisor if you have questions about the university curriculum you should be following.

The Undergraduate bulletin is the official source of University core or general education requirements at www.temple.edu/bulletin.