# TUteach: Biology with Teaching 2015-2016

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

**Content Advisors:**  
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**Program Director:**  
Dr. Susan Varnum  
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Ms. Kathleen McKinley  
**Academic Advisor:** Kenneth Ruff  
[www.temple.edu/biology](www.temple.edu/biology)  

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 I/PAPA Teacher Certification Exam.  

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## CST Credit Requirements:
- **124 minimum total credits**  
- **90 minimum CST/CLA credits**  
- **45 minimum upper-level (2000+) CST/CLA credits**  

**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 I/PAPA Teacher Certification Exam**.

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## Recommended Sequence of Major Courses for Bachelor of Science:  

<table>
<thead>
<tr>
<th>Name:</th>
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<tbody>
<tr>
<td>□ Calculus I: Math 1038* or 1041 or 1941H ______</td>
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<tr>
<td>□ General Chemistry I: Chem 1031 or 1951FH ______</td>
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<tr>
<td>□ General Chemistry Lab I: Chem 1033 or 1953FH ______</td>
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<tr>
<td>□ TUteach Step 1&amp;2: SCTC 1389 ______</td>
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<tr>
<td>□ Introduction to Biology: Bio 1111 or 1911SH ______</td>
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<td>□ Calculus II: Math 2042 or 1942H ______</td>
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<tr>
<td>□ General Chemistry II: Chem 1032 or 1952SH ______</td>
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<tr>
<td>□ General Chemistry Lab II: Chem 1034 or 1954SH ______</td>
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<tr>
<td>□ Schedule PAPA Exam</td>
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<tr>
<td>□ Introduction to Biology: Bio 2112 or 2912FH ______</td>
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<tr>
<td>□ Organic Chemistry I: 2201 or 2211F or 2921FH ______</td>
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<tr>
<td>□ Organic Chem Lab I: 2203 or 2213F or 2923FH ______</td>
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<tr>
<td>□ TUteach Knowing and Learning: Ed 2179 ______</td>
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<td>□ TUteach Special Ed 2231 ______</td>
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<td>□ Genetics: Bio 2296** ______</td>
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<tr>
<td>□ Organic Chemistry II: 2202 or 2212S or 2922SH ______</td>
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<tr>
<td>□ Organic Chem Lab II: 2204 or 2212S or 2922SH ______</td>
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<tr>
<td>□ TUteach Differentiated Literacy Instruction in the Disciplines, 7-12: Secondary Ed 3796 ______</td>
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</tbody>
</table>

## Notes:  
- □ Fall Only □ Spring Only □ Honors Students Only  
- Please check all pre- and co-requisites before registering.  
- * Students who choose Math 1038 must also take the corresponding section of the linked course Math 1039  
- **Select the order in which you take Bio 2227 and Bio 2296 to meet the prerequisites for your planned electives**  
- **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: [bulletin.temple.edu](bulletin.temple.edu)  

## Placement: Math:  

### FL:

### English:

### Notes:

- □ Make an Appointment for Candidacy Review  
- □ Cell Structure and Function: Bio 3096F ______  
- □ General Physics I: Physics 2021 or 2921FH ______  
- □ TUteach Persp. on Science & Math: Phil 2196 OR The History of Science: SCTC 3001 ______  
- □ Principles of Ecology: Bio 2227S* ______  
- □ General Physics II: Physics 2022 or 2922SH ______  
- □ TUteach Research Methods: Bio 3091S ______  
- □ TUteach Classrm Interact: Sci Ed 2189S ______  
- □ Make an Appointment for a Graduation Review  
- □ Biology elective numbered above 2200*** ______  
- □ Biology elective numbered above 2200*** ______  
- □ TUteach Project-Based Instruction: Sci Ed 4189F ______  
- □ Biology elective numbered above 2200*** ______  
- □ TUteach Apprentice Teaching: Ed 4388 ______  
- □ TUteach Apprentice Teaching Sem: Ed 4802 ______  

### Suggested Courses:

__________  

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Notes:  

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**Office Use Only:** CR Path ___________  

Test Codes Added/Removed__________
Appropriate University Curriculum: Gen Ed Traditional

Gen Ed Traditional:
- □ Analytical Reading & Writing: Eng 0802
- □ Mosaic I: Intel Heritage (IH) 0851
- □ Mosaic II: Intel Heritage (IH) 0852
- □ US Society (GU)
- □ Human Behavior (GB)
- □ Arts (GA)
- □ Diversity and Race (GD)
- □ Global/World Society (GG)
- □ Quantitative Literacy (GQ)
- □ Science and Technology (GS)

** Students who complete TUteach majors typically receive a waiver for 1 GB, 2 GS and 1 GQ 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 (IH) 0851 or 0852
- □ US Society (GU)*
- □ Human Behavior (GB)*
- □ Arts (GA)*
- □ Diversity and Race (GD)
- □ Global/World Society (GG)
- □ Quantitative Literacy (GQ)*
- □ Science and Technology (GS)*

** Students who complete TUteach majors typically receive a waiver for 1 GB, 2 GS and 1 GQ 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:

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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: bulletin.temple.edu

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: ___________ Date: ___________
Advisor: ___________ Advisor: ___________
Student: ___________ Student: ___________

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.