# TUteach: Biology with Teaching 2017-2018

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

**Content Advisors:**
Dr. Angela Bricker (0-59 credits)
Dr. Joel Sheffield (60+ credits, Research Questions)

www.temple.edu/biology

**Program Director:**
Dr. Susan Varnum

**Master Teacher/Faculty Advisor:**
Mr. George Mehler

**Academic Advisor:** Kenneth Ruff
Email: kruff@temple.edu

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**Placement: Math:**

<table>
<thead>
<tr>
<th>Notes:</th>
<th>English:</th>
<th>FL:</th>
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</table>
| F= Fall Only  §=Spring Only  H=Honors Students Only
**Please check all pre- and co-requisites before registering.**  
*Students with a C- in Math 1022 must register for Math 1039 if they want to take Math 1041.  
**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 |

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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.

Please note: PA Certification requires passing scores in the PAPA (or PAPA waiver) and PRAXIS II Teacher Certification Exam.

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

- **Calculus I:** Math 1041* or 1941**  ____
- **General Chemistry I:** Chem 1031 or 1951**  ____
- **General Chemistry Lab I:** Chem 1033 or 1953**  ____
- **TUteach Step 1 & 2:** SUCT 1389  ____
- **Introduction to Biology:** Bio 1111 or 1911**  ____
- **Calculus II:** Math 1042 or 1942** OR Intro to Prob & Stats for the Life Sciences: Math 1044  ____
- **General Chemistry II:** Chem 1032 or 1952**  ____
- **General Chemistry Lab II:** Chem 1034 or 1954**  ____
- **Schedule PAPA Exam**
- **Introduction to Biology:** Bio 2112 or 2912**  ____
- **Organic Chemistry I:** Chem 2201 or 2211** or 2921**  ____
- **Organic Chem Lab I:** 2203 or 2213** or 2923**  ____
- **TUteach Knowing and Learning:** Ed 2179  ____
- **TUteach Special Ed 2231**  ____
- **TUteach Step 1 & 2:** SUCT 1389  ____
- **Introduction to Biology:** Bio 2112 or 2912**  ____
- **TUteach Knowing and Learning:** Ed 2179  ____
- **TUteach Special Ed 2231**  ____
- **TUteach Persp. on Science & Math:** Phil 2196 OR The History of Science: SUCT 3001  ____
- **Principles of Ecology:** Bio 2227**  ____
- **TUteach Knowing and Learning:** Ed 2179  ____
- **TUteach Differentiated Literacy Instruction in the Disciplines, 7-12:** Secondary Ed 3796  ____

**Suggested Courses:**

- **Make an Appointment for Candidacy Review**
- **Cell Structure and Function:** Bio 3096  ____
- **General Physics I:** Physics 2021 or 2921**  ____
- **TUteach Persp. on Science & Math:** Phil 2196 OR The History of Science: SUCT 3001  ____
- **TUteach Knowing and Learning:** Ed 2179  ____
- **TUID:**  ____
- **TUteach Apprentice Teaching Sem:** Ed 4388  ____
- **TUteach Apprentice Teaching:** Ed 4802  ____

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**Notes:**
### University Requirements 2017-2018

<table>
<thead>
<tr>
<th>Appropriate University Curriculum:</th>
<th>Gen Ed Traditional</th>
<th>Gen Ed 45+</th>
<th>Gen Ed-to-Gen Ed</th>
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<tbody>
<tr>
<td><strong>Gen Ed Curriculum</strong></td>
<td><strong>Gen Ed-to-Gen Ed:</strong></td>
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<tr>
<td>□ Analytical Reading &amp; Writing: Eng 0802</td>
<td>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:</td>
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<tr>
<td>□ Intel Heritage I: The Good Life (IH) 0851</td>
<td>Bachelor of Arts (BA) Only</td>
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<tr>
<td>□ Intel Heritage II: The Common Good (IH) 0852</td>
<td>□ 2nd level of a Language</td>
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<td>□ US Society (GU)</td>
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<td>□ Human Behavior (GB)**</td>
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<td>□ Arts (GA)</td>
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**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.

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**Gen Ed online:**

- [www.temple.edu/gened](http://www.temple.edu/gened)
- [www.temple.edu/vpus/transfer/TransferGenEd.htm](http://www.temple.edu/vpus/transfer/TransferGenEd.htm)

**Undergraduate Bulletin:**

The Undergraduate Bulletin is the official reference for University Requirements at: [bulletin.temple.edu](http://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.

^Intel Heritage I: The Good Life (IH 0851) formerly Mosaic I

^Intel Heritage: The Common Good (IH 0852) formerly Mosaic II