### Bachelor of Science

#### Recommended Sequence of Major Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Notes</th>
<th>Course</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Calculus I: Math 1041</td>
<td></td>
<td>□ Introduction to General Physics I: Physics 1021 (^F)</td>
<td></td>
</tr>
<tr>
<td>□ General Chemistry I: Chem 1031</td>
<td></td>
<td>□ TTeach Persp on Science &amp; Math: Phil 3XXX</td>
<td></td>
</tr>
<tr>
<td>□ General Chemistry Lab I: Chem 1033</td>
<td></td>
<td>□ Science Elective*</td>
<td></td>
</tr>
<tr>
<td>□ TTeach Step 1: CST 1189</td>
<td></td>
<td>□ Introduction to Astronomy: Physics 0846</td>
<td></td>
</tr>
<tr>
<td>□ Calculus II: Math 1042</td>
<td></td>
<td>□ Introduction to General Physics II: Physics 1022 (^S)</td>
<td></td>
</tr>
<tr>
<td>□ General Chemistry II: Chem 1032</td>
<td></td>
<td>□ TTeach Research Methods</td>
<td></td>
</tr>
<tr>
<td>□ General Chemistry Lab II: Chem 1034</td>
<td></td>
<td>□ TTeach Lang &amp; Literacy in Math &amp; Science</td>
<td></td>
</tr>
<tr>
<td>□ TTeach Step 2: CST 1289</td>
<td></td>
<td>□ Make an Appointment for a Graduation Review</td>
<td></td>
</tr>
<tr>
<td>□ General Biology: Biology 1011</td>
<td></td>
<td>□ Science Elective*</td>
<td></td>
</tr>
<tr>
<td>□ Introductory Geology: Geology 1001</td>
<td></td>
<td>□ Science Elective*</td>
<td></td>
</tr>
<tr>
<td>□ TTeach Knowing and Learning: Educ 2179</td>
<td></td>
<td>□ TTeach Project-Based Instruction: Math or Sci Ed 4189</td>
<td></td>
</tr>
<tr>
<td>□ General Biology: Biology 1012</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Program Design &amp; Abstraction: CIS 1068</td>
<td></td>
<td>□ Paradigms of Knowledge: CST 4351</td>
<td></td>
</tr>
<tr>
<td>□ Science Elective*</td>
<td></td>
<td>□ TTeach Apprentice Teaching</td>
<td></td>
</tr>
<tr>
<td>□ TTeach Classroom Interactions: Math or Sci Ed 2189</td>
<td></td>
<td>□ TTeach Apprentice Teaching Seminar</td>
<td></td>
</tr>
</tbody>
</table>

#### Math Placement Results:

- Math 701
- Math 1021
- Math 1022
- Math 1041

### Notes:

\(^F\) = Fall Only  \(^S\) = Spring Only

Students must check the pre- and co-requisites for all courses before registering. They can be checked at [http://www.temple.edu/bulletin/ugradbulletin/ucd/ucdtoc.html](http://www.temple.edu/bulletin/ugradbulletin/ucd/ucdtoc.html)

*Please refer to the bulletin for elective options at [http://www.temple.edu/bulletin/](http://www.temple.edu/bulletin/)

---

### Bachelor of Science

- 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

---

**TUteach**

The B.S. with Teaching in General Science is a “TUteach” program. It provides broad training in General Science, and prepares students for a career in secondary school teaching.
### 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
- [ ] Science and Technology
- [ ] 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

**B.A.**

- 2nd level of a language + 2 IS/GG or
- 3rd level/Exempt + 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/Exempt or
- 3rd level/Exempt + 1 IS/GG

**B.A.**

- 2nd level of a language + 2 IS/GG or
- 3rd level/Exempt + 1 IS/GG

#### Core-to-Core

- [ ] Writing Intensive Elective (Must be taken at Temple)
- [ ] Writing Intensive in Major (Must be taken at Temple)

**B.S.**

- 1 International Studies (IS/GG) or
- 2nd level of a language/Exempt or
- 3rd level/Exempt + 1 IS/GG

**B.A.**

- Must follow the traditional core foreign language/IS/GG requirements

---

**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.

Revised Date: ______  Revised Date: ______
Advisor Initials: ___  Advisor Initials: ___