# TUteach
## Physics with Teaching
### 2014-2015

**Department of Physics**
A116 Barton Hall  215-204-7634  
**Content Advisor:**
Dr. Zbigniew Dziembowski  
**Program Director:**
Dr. Doug Baird  
**Master Teacher/Faculty Advisor:**
Ms. Kathleen McKinley  
**Academic Advisor:** Kenneth Ruff  
www.temple.edu/physics

**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 1/PAPA Teacher Certification Exam.

The B.S. with Teaching in Physics provides broad training in Physics, 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>□ Calculus I: Math 1041</th>
<th>□ Make an Appointment for Candidacy Review</th>
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</thead>
<tbody>
<tr>
<td>□ Elementary Classical Physics I: Physics 1061</td>
<td>□ Electricity and Magnetism: Physics 3301&lt;sup&gt;f&lt;/sup&gt;</td>
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<tr>
<td>□ TUteach Step 1 &amp; 2: CST 1389</td>
<td>□ Physics Elective*</td>
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<tr>
<td>□ Calculus II: Math 1042</td>
<td>□ TUteach Persp. On Science &amp; Math: Phil 2196&lt;sup&gt;f&lt;/sup&gt;</td>
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<tr>
<td>□ Elementary Classical Physics II: Physics 1062</td>
<td>□ TUteach Differentiated Literacy Instruction in the Disciplines, 7-12: Secondary Ed 3796</td>
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<tr>
<td>□ Schedule PAPA Exam</td>
<td>□ Sequenced Science Elective 1*</td>
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<tr>
<td>□ Calculus III: Math 2043</td>
<td>□ Experimental Physics: Physics 4796&lt;sup&gt;s&lt;/sup&gt;</td>
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<tr>
<td>□ TUteach Knowing and Learning: Ed 2179</td>
<td>□ Physics Elective*</td>
</tr>
<tr>
<td>□ TUteach Special Ed 2231</td>
<td>□ TUteach Classrm Interact: Math or Sci Ed 2189&lt;sup&gt;s&lt;/sup&gt;</td>
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<tr>
<td>□ Classical Mechanics: Physics 2101&lt;sup&gt;s&lt;/sup&gt;</td>
<td>□ TUteach Research Methods: Physics 3091&lt;sup&gt;s&lt;/sup&gt;</td>
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<tr>
<td>□ Mathematical Physics: Physics 2502&lt;sup&gt;s&lt;/sup&gt;</td>
<td>□ Make an Appointment for a Graduation Review</td>
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<tr>
<td>□ Introduction to Modern Physics: Physics 2796&lt;sup&gt;s&lt;/sup&gt;</td>
<td>□ Physics Elective*</td>
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<td>□ Sequenced Science Elective 2*</td>
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<td></td>
<td>□ TUteach PBI: Math or Science Ed 4189&lt;sup&gt;f&lt;/sup&gt;</td>
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<td>□ TUteach Apprentice Teaching: Ed 4388</td>
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<td>□ TUteach Apprentice Teaching Sem: Ed 4802</td>
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</tbody>
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**Placement:** Math:  
**English:**  
**FL:**

**Notes:**
- <sup>f</sup> Fall Only  
- <sup>s</sup> Spring Only

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

*Please refer to the online bulletin for elective course options.

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

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**Suggested Courses:**

| ________________________ | ________________________ |
| ________________________ | ________________________ |
| ________________________ | ________________________ |
| ________________________ | ________________________ |

**Notes:**

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### University Requirements  2014-2015

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

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### Gen Ed Curriculum

#### 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)** ____________
- □ Science and Technology (GS)** ____________

** 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 (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)** __________

** 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.

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<th>Date:</th>
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<tbody>
<tr>
<td>Advisor:</td>
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<td>Student:</td>
<td>Student:</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.