# Biophysics

**Department of Physics**

406 Science Education & Research Center  215-204-7634  
Chair: Dr. James Napolitano  
Faculty Advisors: Dr. Zbigniew Dziembowski (A-K)  
Dr. Tan Yuen (L-Z)  
www.temple.edu/physics

## CST Credit Requirements:

- **123** minimum total credits
- **90** minimum CST/CLA credits
- **45** minimum upper-level (2000+) CST/CLA credits

**Backtracking rule:** Credit for some courses two or more levels below previously completed coursework cannot be used towards the degree.

#### Name:  

#### TUID:

### Bachelor of Science

**Recommended Sequence of Major Courses:**

- [ ] General Chemistry I: Chem 1031 or 1951<sup>FH</sup>  
- [ ] General Chemistry Lab I: Chem 1033 or 1953<sup>FH</sup>  
- [ ] Calculus I: Math 1038* or 1041 or 1941<sup>H</sup>  
- [ ] General Chemistry II: Chem 1032 or 1952<sup>SH</sup>  
- [ ] General Chemistry Lab II: Chem 1034 or 1954<sup>SH</sup>  
- [ ] Calculus II: Math 1042 or 1942<sup>H</sup>  
- [ ] Organic Chemistry I: Chem 2201 or 2211<sup>F</sup> or 2921<sup>FH</sup>  
- [ ] Organic Chemistry Lab I: Chem 2203 or 2213<sup>F</sup> or 2923<sup>FH</sup>  
- [ ] Calculus III: Math 2043 or 2943<sup>H</sup>  
- [ ] Physics I: Phys 1061 or 1961<sup>H</sup> or 2021 or 2921<sup>FH</sup>  
- [ ] Organic Chemistry II: Chem 2202 or 2212<sup>S</sup> or 2922<sup>SH</sup>  
- [ ] Organic Chemistry Lab II: Chem 2204 or 2214<sup>S</sup> or 2924<sup>SH</sup>  
- [ ] Physics II: Phys 1062 or 1962<sup>H</sup> or 2022 or 2922<sup>SH</sup>  
- [ ] Introduction to Biology II: Bio 2112 or 2912<sup>FH</sup>  
- [ ] Electricity & Magnetism: Physics 3301<sup>F</sup>  
- [ ] Biophysics Elective**: _______  
- [ ] Mathematical Physics: Physics 2502<sup>S</sup>  
- [ ] Introduction to Modern Physics: Physics 2796<sup>S</sup>  
- [ ] Biophysics Elective**: _______  
- [ ] Make an Appointment for a Graduation Review  
- [ ] Cell Structure & Function: Bio 3096<sup>F</sup>  
- [ ] Thermodynamics & Kinetic Theory: Physics 4101<sup>F</sup>  
- [ ] Biophysics Elective**: _______  
- [ ] Genetics: Bio 2296<sup>S</sup>  
- [ ] Biophysics Elective**: _______  

**Graduation Review:**

Graduation Reviews are required. Schedule your graduation review with the CST Advising Office in the spring semester of your junior year.

**NOTE:** Four electives must be chosen in consultation with the Physics advisor. All courses must be at the 2000+ level. At least two electives must be Physics courses.

Choose courses in Physics, Biology (Neurobiology, Genetics, Cell Structure, Physiology), Chemistry (Physical Chemistry), Biochemistry and Biophysics.

**NOTE:** Biology 1111 or 1911<sup>SH</sup> is a prerequisite for Bio 2296 and 3096. Students should discuss their readiness with their faculty advisor.

### Placement: Math:  

### English:  

### FL:  

### Notes:

- [ ] Fall Only  
- [ ] Spring Only  
- [ ] Honors Students Only  

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

The Undergraduate Bulletin is the official source for major requirements: [http://bulletin.temple.edu](http://bulletin.temple.edu)

*Students who choose Math 1038 must also take the corresponding section of the linked course Math 1039

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### University Requirements 2016-2017

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

#### 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)**

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

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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.