

Bachelor of Science Degree **Biophysics** 2006-2007

Department of Physics

A116 Barton Hall
(215) 204-7634

Chairperson: Dr. C. Jeff Martoff

Faculty Advisor: Dr. Zbigniew Dziembowski
www.temple.edu/physics

• **123** credits, **90** of which must be in CST/CLA courses

• **45** credits must be upper level (UL) coursework in either CST/CLA or UL course(s) that can be credited towards the CST major or declared CST 2nd major/minor requirement(s).

• Appropriate Core Curriculum requirements:

Traditional Core 45+ Core to Core

• A recommended sequence of courses for the major is listed below:

Students must check the pre- and/or co-requisites before registering for courses.

First Year

- General Chemistry I with Lab (Chem C071/73 or equiv.)
- General Chemistry II with Lab (Chem C072/74 or equiv.)
- Calculus I (Math C085 or H095)
- Calculus II (Math 0086 or H096)

Second Year

- Organic Chemistry I with Lab (0121/3 or equiv.)
- Organic Chemistry II with Lab (0122/4 or equiv.)
- Calculus III Math 0127
- Physics C087 or Physics 0121
- Physics C088 or Physics 0122

Third Year

- Introduction to Biology (Bio 0102 or H102) *formerly Bio 0103*
- Elective *
- Elective *

Fourth Year

- Cell Structure and Function (Bio W204)
- Electricity and Magnetism w/ Lab (Physics 0187)
- Thermodynamics and Kinetic Theory (Physics 0231)
- Genetics (Bio 0203)
- Mathematical Physics (Physics 0184)
- Intro. To Modern Physics w/ Lab (Physics 0188)
- Elective*
- Elective*

*4 electives chosen in consultation with the physics faculty advisor. All must be 0200 level or above. At least 2 must be Physics courses. Choose courses in Physics, Biology (Neurobiology, Genetics, Cell Structure, Physiology), Chemistry (Physical Chemistry), Biochemistry and Biophysics. Recommended for graduate school in Physics: Physics 0201, 0211, W215, 0306 and as much of the BS program in Physics as time allows.

Note: choosing Physics W215 as a Major elective will fulfill a writing intensive elective as well. Students planning to go to medical school should complete Biology 0101.

Traditional Core

For students starting as freshmen or transferring with fewer than 45 credits.

- English C050 _____
- American Culture _____
- The Arts _____
- Individual and Society _____
- Studies in Race _____
- Foreign Language 2nd level * _____
- Foreign Language 3rd level * _____
- International Studies _____
- International Studies (non western) * _____
- Science and Technology (SA) _____
- Science and Technology (SB) _____
- Quantitative Reasoning (QA) _____
- Quantitative Reasoning (QB) _____
- Intellectual Heritage X051 _____
- Intellectual Heritage X052 _____
- Writing Intensive Elective _____
- Writing Intensive Elective (Must be taken at Temple) _____
- Writing Intensive in Major (Must be taken at Temple) _____

* B.S.

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

Core 45 +

For students receiving 45 credits or more in transfer.

- English C050 _____
- American Culture _____
- The Arts _____
- Individual and Society _____
- Studies in Race _____
- Science and Technology (SA or SB) _____
- Quantitative Reasoning (QA or QB) _____
- Intellectual Heritage X051 or X052 _____
- Writing Intensive Elective (Must be taken at Temple) _____
- Writing Intensive in Major (Must be taken at Temple) _____
- Foreign Language * _____
- International Studies * _____

* B.S.

- 1 International Studies (IS) or
- 2nd level of a language/Exempt^

Core to Core

For students who have completed an approved Associate's degree from a college that has an established transfer agreement with Temple.

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

Library Skills (TILT) www.library.temple.edu
(Must be taken in order to graduate)

^If English is your second language, speak with an advisor about possible exemption.