

Bachelor of Science Degree – Biophysics 2003-04

Department of Physics

A116 Barton Hall
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Chairperson: Dr. Edward Gawlinski

Faculty Advisor: Dr. Donald Neville

www.temple.edu/physics

- 123 credits, 90 of which must be in CST/CLA courses
- 45 credits must be upper level coursework in CST/CLA
- Appropriate Core Curriculum requirements:
 - Traditional Core 45 Core to Core
- The following requirements for the Biophysics Major:

[Math Sequence: 0015 > 0045 > C073 > C074 > C075 or C085 > 0076 or 0086]

First Year

- Calculus I (Math C085 or C075)*
- Calculus II (Math 0086 or 0076)*
- Classical Physics I (Physics 0121 or C087)*
- Classical Physics II (Physics 0122 or C088)*

Second Year

- Calculus III Math 127*
- Mathematical Physics (Physics 184)*
- General Chemistry I with Lab (Chem C071/73 or equiv.)*
- General Chemistry II with Lab (Chem C072/74 or equiv.)*
- Electricity & Magnetism with Lab (Physics 187 & 187L)*
- Intro to Modern Physics with Lab (Physics 188 & 188L)*

Third Year

- Thermodynamics (Physics 231)*
- Introduction to Biology I (Bio 103)*
- Organic Chemistry I with Lab (121/3 or equiv.)*
- Organic Chemistry II with Lab (122/4 or equiv.)*
- Elective *

Fourth Year

- Cell Structure and Function (Bio W204)*
- Genetics (Bio 203)*
- Elective**
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*Courses have pre- and/or co-requisites, consult course descriptions for details.

**4 electives chosen in consultation with physics advisor. All must be 200 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 201, 211, W215, 306 and as much of the BS program in Physics as time allows.

Traditional Core

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

- English 50 _____
- 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 Level 1 _____
- Science and Technology Level 2 _____
- Quantitative Reasoning Level 1 _____
- Quantitative Reasoning Level 2 _____
- 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) or
- 2nd level of a language + 1 IS or
- 3rd level of a language /Exempt^

*Note: choosing Physics W215 as a Major elective will fulfill a writing intensive elective as well

Core 45 +

For students receiving 45 credits or more in transfer.

- English 50 _____
 - American Culture _____
 - The Arts _____
 - Individual and Society _____
 - Studies in Race _____
 - Science and Technology Level _____
 - Quantitative Reasoning Level _____
 - Intellectual Heritage X051 or X052 _____
 - Foreign Language • _____
 - International Studies • _____
 - Writing Intensive Elective* (Must be taken at Temple) _____
 - Writing Intensive in Major (Must be taken at Temple) _____
- } 2 of the 3

*B.S.

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

Core to Core

For students who have completed an 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) _____

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