

Bachelor of Science Degree – Physics [Standard Track] 2005-2006

Department of Physics

A116 Barton Hall (215) 204-7639

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 major or declared 2nd major/minor chosen in consultation with an advisor.

- Appropriate Core Curriculum requirements:
 - Traditional Core 45 Core to Core

- The following requirements for the Physics Major:

Math Sequence: 0045 > C073 > C074 > C085 > 0086

First Year

- Calculus I (Math C085 or H095) ♦
- Calculus II (Math 0086 or H096) ♦
- Classical Physics I (Physics C087) or General Physics I (0121) ♦
- Classical Physics II (Physics C088) or General Physics II (0122) ♦

Second Year

- Calculus III (Math 0127) ♦
- Optics (Physics 0171) ♦
- Mathematical Physics (Physics 0184) ♦
- Electricity & Magnetism with Lab (Physics 0187 & 0187L) ♦
- Intro to Modern Physics with Lab (Physics 0188 & 0188L) ♦
- Differential Equations (Math 0251) ♦

Third Year

- Classical Mechanics (Physics 0201) ♦
- Thermodynamics and Kinetic Theory (Physics 0231) ♦
- Classical Electromagnetism (Physics 0211) ♦
- Computing for Scientists (Physics 0161) ♦
- Two courses in biology, chemistry, engineering, geology, mathematics or advanced physics chosen in consultation with an advisor. ♦
- Electronics (0221)⁺

Fourth Year

- Experimental Physics (Physics W215) ♦
- Analytical Mechanics (Physics 0202) ♦
- Quantum Mechanics (0306) ♦
- Introduction to Solid State Physics (0321)⁺ [course offered on even-numbered years only], **or** Introduction to Atomic, Nuclear, & Particle Physics (0341)⁺ [course offered on odd-numbered years only]

⁺Choose 2 out of following 3 courses: Physics 0221, 0321, or 0341

*Recommended for graduate school: Physics 0306, 0321, or 0341

♦Courses have pre- and/or co-requisites, consult course descriptions for details.

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* _____

2 of the 3

*B.S.

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

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

Core to Core

- 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.
Revised 7/14/05