

# PHYSICS

## 2009-2010

### Department of Physics

A116 Barton Hall

(215) 204-7639

Chairperson: Dr. Rongjia Tao

Faculty Advisor: Dr. Zbigniew Dziembowski

[www.temple.edu/physics](http://www.temple.edu/physics)

### CST Credit Requirements:

A minimum of **123** total credits

A minimum of **45** Upper Level (UL) within CST/CLA (College of Science & Technology/College of Liberal Arts)

A minimum of **90** credits within CST/CLA

Name: \_\_\_\_\_

TU ID: \_\_\_\_\_

Degree: BA or BS

### Bachelor of Arts

#### Recommended Sequence of Major Courses:

- Calculus I: Math 1041 \_\_\_\_\_
- Elementary Classical Physics I: Physics 1061 \_\_\_\_\_
- Calculus II: Math 1042 \_\_\_\_\_
- Elementary Classical Physics II: Physics 1062 \_\_\_\_\_
  
- Calculus III: Math 2043 \_\_\_\_\_
- Mathematical Physics: Physics 2502<sup>S</sup> \_\_\_\_\_
- Introduction to Modern Physics: Physics 2701<sup>S</sup> \_\_\_\_\_
  
- Electricity and Magnetism: Physics 3301<sup>F</sup> \_\_\_\_\_
- Sequenced Science Part 1\* \_\_\_\_\_
- Classical Mechanics: Physics 2101<sup>S</sup> \_\_\_\_\_
- Sequenced Science Part 2\* \_\_\_\_\_
- Make an Appointment for a Graduation Review \_\_\_\_\_
  
- Experimental Physics: Physics 4796<sup>S</sup> \_\_\_\_\_
- Physics Elective\*\* \_\_\_\_\_
- Physics Elective\*\* \_\_\_\_\_
- Physics Elective\*\* \_\_\_\_\_

#### CST College Requirements:

- Upper Level Liberal Arts Course 2000+ \_\_\_\_\_
- Upper Level Liberal Arts Course 2000+ \_\_\_\_\_

### Bachelor of Science

#### Recommended Sequence of Major Courses:

- Calculus I: Math 1041 \_\_\_\_\_
- Elementary Classical Physics I: Physics 1061 \_\_\_\_\_
- Calculus II: Math 1042 \_\_\_\_\_
- Elementary Classical Physics II: Physics 1062 \_\_\_\_\_
  
- Calculus III: Math 2043 \_\_\_\_\_
- Differential Equations I: Math 3041 \_\_\_\_\_
- Computing for Scientists: Physics 2501<sup>F</sup> \_\_\_\_\_
- Classical Mechanics: Physics 2101<sup>S</sup> \_\_\_\_\_
- Mathematical Physics: Physics 2502<sup>S</sup> \_\_\_\_\_
- Introduction to Modern Physics: Physics 2701<sup>S</sup> \_\_\_\_\_
  
- Analytical Mechanics: Physics 3101<sup>F</sup> \_\_\_\_\_
- Electricity and Magnetism: Physics 3301<sup>F</sup> \_\_\_\_\_
- Science Elective 1\* \_\_\_\_\_
- Science Elective 2\* \_\_\_\_\_
- Classical Electromagnetism: Physics 3302<sup>S</sup> \_\_\_\_\_
- Intro to Quantum Mechanics: Physics 3701<sup>S</sup> \_\_\_\_\_
- Make an Appointment for a Graduation Review \_\_\_\_\_
  
- Thermodynamics and Kinetic Theory: Physics 4101<sup>F</sup> \_\_\_\_\_
- Optics: Physics 4302<sup>F</sup> \_\_\_\_\_
- Electronics: Physics 4301<sup>F\*\*</sup> \_\_\_\_\_
- Intro to Solid State Physics: Physics 4701<sup>\*\*SE</sup> \_\_\_\_\_
- Intro of Atomic, Nuclear & Particle Physics: Physics 4702<sup>\*\*SO</sup> \_\_\_\_\_
- Experimental Physics: Physics 4796<sup>S</sup> \_\_\_\_\_

**Math Placement Results:** Math 0701    Math 0702    Math 1021    Math 1022    Math 1041

### NOTES:

<sup>F</sup> = Fall Only    <sup>S</sup> = Spring Only    <sup>E</sup> = Even Yrs. Only    <sup>O</sup> = Odd Yrs. Only

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

\*Please refer to the bulletin for sequenced science course or science elective options at [http://www.temple.edu/bulletin/Academic\\_programs/academic\\_programs.shtm](http://www.temple.edu/bulletin/Academic_programs/academic_programs.shtm)

\*\*Please refer to bulletin for physics elective options at [http://www.temple.edu/bulletin/Academic\\_programs/schools\\_colleges/cst/programs/physics/cst\\_physics.shtm](http://www.temple.edu/bulletin/Academic_programs/schools_colleges/cst/programs/physics/cst_physics.shtm)

The Undergraduate bulletin is the official source of major requirements at [www.temple.edu/bulletin](http://www.temple.edu/bulletin)

### Suggested Courses:

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\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Appt Date: \_\_/\_\_/\_\_ Time: \_\_: \_\_  
1810 Liacouras Walk, Suite 203

Revised Date: \_\_\_\_\_

Advisor Initials: \_\_\_\_\_

Revised Date: \_\_\_\_\_

Advisor Initials: \_\_\_\_\_

Revised Date: \_\_\_\_\_

Advisor Initials: \_\_\_\_\_

Revised Date: \_\_\_\_\_

Advisor Initials: \_\_\_\_\_

Revised on June 4, 2008

# University Requirements

Appropriate University Curriculum: Gen Ed Freshman Traditional Core Core 45+ Core-to-Core

## Gen Ed Curriculum

### For Freshman Beginning Fall 2008 and after:

- Analytical Reading and Writing \_\_\_\_\_
- Mosaic I \_\_\_\_\_
- Mosaic II \_\_\_\_\_
- Quantitative Literacy \_\_\_\_\_
- Arts \_\_\_\_\_
- Human Behavior \_\_\_\_\_
- U.S. Society \_\_\_\_\_
- World Society \_\_\_\_\_
- Race and Diversity \_\_\_\_\_
- Science and Technology \_\_\_\_\_
- Science and Technology \_\_\_\_\_

### Bachelor of Arts (BA) Only

- 2<sup>nd</sup> level of a Language \_\_\_\_\_

**Note:** Gen Ed curriculum applies to all newly admitted freshman in Fall 2008 or after and for all transfer students admitted Fall 2010 and after.

## Core Curriculum

For transfers entering from Fall 2008 through Spring 2010 with 45 or fewer credits.

### Traditional Core:

- English 802/812 \_\_\_\_\_
- American Culture \_\_\_\_\_
- Arts \_\_\_\_\_
- Individual and Society \_\_\_\_\_
- Studies in Race \_\_\_\_\_
- Foreign Language 2<sup>nd</sup> level\* \_\_\_\_\_
- Foreign Language 3<sup>rd</sup> level\* \_\_\_\_\_
- International Studies\* \_\_\_\_\_
- International Studies\* \_\_\_\_\_
- Science and Technology (SA) \_\_\_\_\_
- Science and Technology (SB/GS) \_\_\_\_\_
- Quantitative Reasoning (QA/GQ) \_\_\_\_\_
- Quantitative Reasoning (QB/GQ) \_\_\_\_\_
- Intellectual Heritage 0851 \_\_\_\_\_
- Intellectual Heritage 0852 \_\_\_\_\_
- Writing Intensive Elective \_\_\_\_\_
- Writing Intensive Elective \_\_\_\_\_
- Writing Intensive in Major \_\_\_\_\_

\* **B.S.**

2 International Studies (IS/GG) or  
2<sup>nd</sup> level of a language + 1 IS/GG or  
3<sup>rd</sup> level of a language or Exemption<sup>^</sup>

\* **B.A.**

2<sup>nd</sup> level of a language + 2 IS/GG or  
3<sup>rd</sup> level/ Exempt<sup>^</sup> + 1 IS/GG

### English Placement Results:

English 701/711 English 802/812 Exempt

### Foreign Language Placement Results:

\_\_\_\_\_ 1001 1002 1003 Exempt

All transfer students are required to complete the **Library Skills Test (TILT)** online at [www.library.temple.edu](http://www.library.temple.edu).

Please consult with your assigned academic advisor if you have questions about the university curriculum you should be following.

The Undergraduate bulletin is the official source of University core or general education requirements at [www.temple.edu/bulletin](http://www.temple.edu/bulletin).

Revised Date: \_\_\_\_\_ Revised Date: \_\_\_\_\_  
Advisor Initials: \_\_\_\_\_ Advisor Initials: \_\_\_\_\_

Revised Date: \_\_\_\_\_ Revised Date: \_\_\_\_\_  
Advisor Initials: \_\_\_\_\_ Advisor Initials: \_\_\_\_\_

### Core 45+:

For students receiving 45 or more credits in transfer.

- English 802/812 \_\_\_\_\_
- American Culture \_\_\_\_\_
- Arts \_\_\_\_\_
- Individual and Society \_\_\_\_\_
- Studies in Race \_\_\_\_\_
- Science and Technology (SA or SB) \_\_\_\_\_
- Quantitative Reasoning (QA or QB) \_\_\_\_\_
- Intellectual Heritage 0851 or 0852 \_\_\_\_\_
- Writing Intensive Elective (Must be taken at Temple) \_\_\_\_\_
- Writing Intensive in Major (Must be taken at Temple) \_\_\_\_\_
- Foreign Language 2<sup>nd</sup> level\*\* \_\_\_\_\_
- Foreign Language 3<sup>rd</sup> level\*\* \_\_\_\_\_
- International Studies\*\* \_\_\_\_\_
- International Studies\*\* \_\_\_\_\_

\*\* **B.S.**

1 International Studies (IS/GG) or  
2<sup>nd</sup> level of a language/Exempt<sup>^</sup>

\*\* **B.A.**

2<sup>nd</sup> level of a language + 2 IS/GG or  
3<sup>rd</sup> level/ Exempt<sup>^</sup> + 1 IS/GG

### Core-to-Core:

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

- Writing Intensive Elective (Must be taken at Temple) \_\_\_\_\_
  - Writing Intensive in Major (Must be taken at Temple) \_\_\_\_\_
- B.A.**—Must follow the traditional core foreign language/IS/GG requirements