# Mathematics and Physics 2011-2012

## Department of Mathematics
638 Wachman Hall (215) 204-7841
Chairperson: Dr. Edward Letzter
Faculty Advisor: Dr. Boris Datskovsky
www.temple.edu/math

## Department of Physics
255 Bio-Life Building 215-204-7634
Chairperson: Dr. Rongjia Tao
Faculty Advisor Dr. Zbigniew Dziembowski
www.temple.edu/physics

### 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 w/Linear Algebra:** Math 3045
- **Introduction to Probability Theory:** Math 3031
- **Classical Mechanics:** Physics 2101
- **Mathematical Physics:** Physics 2502
- **Introduction to Modern Physics:** Physics 2796
- **Advanced Calculus I:** Math 3141
- **Analytical Mechanics:** Physics 3101
- **Electricity and Magnetism:** Physics 3301
- **Theoretical Linear Algebra:** Math 3051
- **Advanced Calculus II:** Math 3142
- **Make an Appointment for a Graduation Review**
- **Modern Algebra:** Math 3098
- **Computing for Scientists:** Physics 2501
- **Thermodynamics & Kinetic Theory:** Physics 4101
- **Introduction to Functions of a Complex Variable:** Math 4051
- **Senior Problem Solving:** Math 4096
- **Classical Electromagnetism:** Physics 3302

### 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.

## Graduation Review:

At the completion of 90 credits, or when one or two semesters of coursework remain, schedule your graduation review with the CST Advising Office.

### Placement:

- **Math:**
- **English:**
- **FL:**

### Notes:

- F = Fall Only  S = Spring Only
- Please check all pre- and co-requisites for courses before registering.
- The Undergraduate Bulletin is the official source for major requirements: www.temple.edu/bulletin.

### Suggested Courses:

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### Revised Date:

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### Appropriate University Curriculum

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<th>Gen Ed Traditional</th>
<th>Gen Ed 45+</th>
<th>Gen Ed-to-Gen Ed</th>
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**Gen Ed Traditional:**
- □ Analytical Reading & Writing: Eng 0802____
- □ Mosaic I: Intel Heritage 0851 _____________
- □ Mosaic II: Intel Heritage 0852___________
- □ US Society _____________
- □ Human Behavior _____________
- □ Arts _________________
- □ Diversity and Race _________________
- □ Global/World Society _________________
- □ Quantitative Literacy * _________________
- □ Science and Technology * _________________
- □ Science and Technology * _________________
- * May be waived based on major courses

**Bachelor of Arts (BA) Only**
- □ 2nd level of a Language __________

**Gen Ed 45+ (45 or more transfer credits):**
- □ Analytical Reading & Writing: Eng 0802____
- □ Mosaic I or II: Intel Heritage 0851 or 0852 _____
- □ US Society *________
- □ Human Behavior *________
- □ Arts *________
- □ Diversity and Race ____________
- □ Global/World Society _________________
- □ Quantitative Literacy ** _________________
- □ Science and Technology ** _________________
- ** May be waived based on major courses

**Bachelor of Arts (BA) Only**
- □ 2nd level of a Language __________

**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  
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:
www.temple.edu/bulletin.

**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.