

Physics
(Department of Mathematical Sciences)

Major Requirements

<u>Major Courses</u>	<u>Credits</u>	<u>Semester Completed</u>
[MATH 111] Calculus I (or [MATH 109] Calculus I, Part 1 (4) and [MATH 110] Calculus I, Part II (3))	4	_____
[MATH 112] Calculus II	4	_____
[MATH 211] Calculus III	4	_____
[PHYS 211] General Physics I	4	_____
[PHYS 212] General Physics II	4	_____

The following courses are taken at the Philadelphia campus in conjunction with Temple University:

MATH 3042 Differential Equations	3	_____
PHYS 2101 Classical Mechanics	3	_____
PHYS 2501 Computing for Scientists *	3	_____
PHYS 2502 Mathematical Physics	3	_____
PHYS 2701 Introduction to Modern Physics	4	_____
PHYS 3101 Analytical Mechanics	3	_____
PHYS 3301 Electricity and Magnetism	4	_____
PHYS 3302 Classical Electromagnetism	3	_____
PHYS 3701 Introduction to Quantum Mechanics	3	_____
PHYS 4101 Thermodynamics and Kinetic Theory	3	_____
PHYS 4302 Optics	3	_____
PHYS 4796 Experimental Physics	3	_____
<i>Six additional credits from the following:</i>	6	_____
PHYS 0221 Electronics (3)		_____
PHYS 0321 Introduction to Solid State Physics (3)		_____
PHYS 0341 Intro of Atomic, Nuclear, and Particle Physics (3)		_____

*Recommended, but not specifically required. To meet Temple requirements, students must choose two science/math/electrical engineering courses beyond those specifically required. MATH 261 will satisfy Temple's requirement for the second course. COSC 181 is a good background for Temple course PHYS 0161.

General Education requirements on reverse side

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General Education Requirements

<u>Courses</u>	<u>Credits</u>	<u>Semester Completed</u>
First Year Seminar	3	_____
Oral Communications	3	_____
Created and Called for Community	3	_____
Mathematical Sciences ([MATH 111] or [MATH 112] or [MATH 211])	3 or 4	<u>met by major</u>
Laboratory Science ([PHYS 211] or [PHYS 212])	3 or 4	<u>met by major</u>
Science, Technology & the World	3	<u>waived</u>
Two of the following:	6	
Social Science (3 credits)		_____
European History (3 credits)		_____
United States History (3 credits)		_____
Literature	3	_____
Philosophy and Religion	3	_____
Arts	3	_____
Language/Cross Cultural		
First Semester of Language	3	_____
Second Semester of Language	3	_____
Third Semester of Language or Cross Cultural	3	_____
Non-Western Studies	2 or 3	_____
Bible	3	_____
Christian Beliefs	3	_____
Health and Physical Fitness		
Introduction to Wellness	2	_____
Activity Course	1	_____
One of the following:	3	
Ethics (3 credits)		_____
World Views (3 credits)		_____
Pluralism in Contemporary Society (3 credits)		_____
Writing Enriched Course		_____

SUMMARY OF DEGREE REQUIREMENTS:

General Education	47-48
Major Requirements	64
Free Electives	11-12
Total	123

Major requirements on reverse side