

Physics (B.S.)
(Department of Information and Mathematical Sciences)

Major Requirements

<u>Major Courses</u>	<u>Credits</u>	<u>Semester Completed</u>
[MATH 111] Calculus I	4	
(or [MATH 109] Calculus I, Part 1 (4) and [MATH 110] Calculus I, Part II (3))		
[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 3041 Differential Equations	3	
PHYS 2101 Classical Mechanics	3	
PHYS 2501 Computing for Scientists*	3	
PHYS 2502 Mathematical Physics	4	
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 4301 Electronics (3)		
PHYS 4701 Introduction to Solid State Physics (3)		
PHYS 4702 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. [CIS 181] is a good background for Temple course PHYS 0161.		

General Education requirements on next page

Physics (B.S.)
(Department of Information and Mathematical Sciences)

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 previous page

August 2011