							Do not write in this space)		
							ROUTING:	Initials	Date
CHECK ONE:  ☐ Degree program, ☐ Minor, ☐ Certificate, ☐ Emphasis area							Academic Affairs	BAT	3/21/12
From:	Physics & Astronomy	Approved By	Bernard Feldman	Date:	2/8/12	2	Graduate School (if applicable)	MEH	9/21/12
	Department		Department Chair				Senate C & I	MTA	10/28/12
							Reported to Senate		
From:	Arts & Sciences	Approved By		Date:	3/20/	12	Academic Affairs		
	School or College		Dean					,	
Title of Degree, Minor, or Certificate Program: Physics and Astronomy, Undergraduate									
Page(s) and year of the current Bulletin listing.									
If other departments are affected by this proposal, please secure "sign-offs" and indicate for each department the following:									
Department Contact Person Phone #									21.
1.							sal received: No major obje		
2.							sal received: No major obje		3
3.						Propo	sal received:   No major obje		Objections
Current Bulletin listing: Proposed Bulletin listing: Rationale:									
Unde	rgraduate Studies	Undergraduate Studies							
General Education Requirements: Majors must complete the university and college general education requirements. Any of the following courses may be used to satisfy the physical science requirement:  ASTRON: 1001, 1001A, 1011, 1012, 1050, 1051, 1121  ATM SCI: 1001, 1001A  GEOL 1001, 1002, 1001A, 1002A  PHYSICS: 1001, 1011, 1012, 2111, 2112.			General Education Requirements: Majors must complete the university and college general education requirements. Any of the following courses may be used to satisfy the physical science requirement:  ASTRON: 1001, 1001A, 1011, 1012, 1050, 1051, 1121  ATM SCI: 1001, 1001A  GEOL 1001, 1002, 1001A, 1002A  PHYSICS: 1001, 1011, 1012, 2111, 2112.						
Degree Requirements			Degree Requirements						
All physics majors, who are transfer students, must complete PHYSICS 1099, Windows on Physics. First time freshman must take INTDSC 1003. All physics majors in all programs must complete the physics core curriculum with the exception that majors pursuing the Physics Education option are not required to take PHYSICS 1099 and CMP SCI 1250. In addition to the core courses, each individual program has its own specific requirements. Required Physics, Mathematics, Chemistry, Biology, Optometry and			All physics majors in all programs must complete the physics core curriculum with the exception that majors pursuing the Physics Education option are not required to take PHYSICS 1099 and CMP SCI 1250. In addition to the core courses, each individual program has its own specific requirements. Required Physics, Mathematics, Chemistry, Biology, Optometry and Computer Science courses for a major or minor in physics may not be taken on a satisfactory/unsatisfactory grading basis.			Physics 1099 has been mo curriculum requirements.		core	

Computer Science courses for a major or minor in physics may not be taken on a satisfactory/unsatisfactory grading basis.

**Core Curriculum:** The following physics courses are required:

**PHYSICS 2111**, Physics: Mechanics and Heat **PHYSICS 2112**, Physics: Electricity, Magnetism, and Optics

**PHYSICS 3200**, Mathematical Methods of Theoretical Physics

PHYSICS 3221, Mechanics

**PHYSICS 3223**, Electricity and Magnetism

PHYSICS 3231, Introduction to Modern Physics I

## Also required are:

MATH 1800, Analytic Geometry and Calculus I MATH 1900, Analytic Geometry and Calculus II MATH 2000, Analytic Geometry and Calculus III MATH 2020, Introduction to Differential Equations

**CHEM 1111,** Introductory Chemistry I or equivalent

**CMP SCI 1250**, Introduction to Computer Science

**Note**: Students are urged to begin the calculus sequence [MATH 1800, Analytic Geometry and Calculus I] as soon as possible to avoid delays in graduation.

Students with experience in digital computer programming may be excused from CMP SCI 1250.

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Revised: October, 2008