

Physics, Undergraduate General Requirements

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	Cosmic Evolution Introductory Astronomy (MOTR ASTR 100)	3
ASTRON 1011	Planets and Life in the Universe	3
ASTRON 1012	The Violent Universe and the New Astronomy	3
ASTRON 1050	Introduction to Astronomy I (MOTR ASTR 100)	3
ASTRON 1051	Introduction to Astronomy II	3
ATM SCI 1001	Elementary Meteorology	3
GEOL 1001	General Geology	3
GEOL 1002	Historical Geology	3
PHYSICS 1001	How Things Work (MOTR PHYS 100)	3
PHYSICS 1011	Basic Physics I	3
PHYSICS 1011L	Basic Physics I Laboratory	1
PHYSICS 1012	Basic Physics II	3
PHYSICS 1012L	Basic Physics II Laboratory	1
PHYSICS 2111	Physics: Mechanics and Heat	4
PHYSICS 2112	Physics: Electricity, Magnetism, and Optics	4

~~Declaring the Physics Major Students seeking to major in physics are first designated as 'pre-physics majors' until they have completed both PHYSICS 2111 and PHYSICS 2112 or equivalent courses. Upon successful completion of PHYSICS 2111 and PHYSICS with grades C- or better, students will be allowed to declare physics as their major. Each of these courses must be completed successfully within two attempts.~~

Degree Requirements

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, and 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: 23

PHYSICS 1099	Windows on Physics
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PHYSICS 2111	Physics: Mechanics and Heat
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PHYSICS 2111L	Mechanics and Heat Laboratory
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PHYSICS 2112	Physics: Electricity, Magnetism, and Optics
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PHYSICS 2112L	Electricity, Magnetism, and Optics Laboratory
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PHYSICS 3200	Mathematical Methods of Theoretical Physics
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PHYSICS 3221	Mechanics
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PHYSICS 3223	Electricity and Magnetism
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PHYSICS 3231	Introduction to Modern Physics I
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Also required are: 26

MATH 1800	Analytic Geometry and Calculus I
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MATH 1900	Analytic Geometry and Calculus II
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MATH 2000	Analytic Geometry and Calculus III
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MATH 2020	Introduction to Differential Equations
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CHEM 1111	Introductory Chemistry I (MOTR CHEM 150L)
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CMP SCI 1250	Introduction to Computing
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Total Hours	49
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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.

Justification for request:

The pre-major declaration is unnecessary and has never been enforced or enforceable.