

Physics, B.S.

303-556-2454 North Classroom 3123

Catalog 11-12

This sheet applies to the 2011-2012 catalog *only*. It does not replace the full catalog or departmental advising sheets as official statements of requirements. Students with declared majors *must* work with a faculty advisor on course selection and sequencing to ensure a timely graduation.

General Studies	34-38	
Major courses	41	
Required ancillary courses	16	
Minor courses	18 min	
Electives	7-11	
Total to graduate (min. 40 hrs upper division)	120 min	

Students who have reached junior standing (60 hrs) should request a CAPP (graduation compliance report) and review it with a faculty advisor.

GENERAL STUDIES LEVEL I Complete during your first 30 credit hours at Metro

Composition

- ___ ENG 1010-3 Freshman Comp: the Essay
- ___ ENG 1020-3 Freshman Comp: Anal., Rsrch & Docum.

Mathematics

- ___ MTH 1110-4 College Algebra-or higher level math

Communications

- ___ -3

GENERAL STUDIES LEVEL II

Historical

- ___ -3

Arts & Letters

- ___ -3
- ___ -3

Social Sciences

- ___ -3
- ___ -3

Natural Sciences Lab is required for General Studies credit

- ___ CHE 1800-4 General Chemistry I *Recommended - See Physics advisor*
- ___ CHE 1810-4 General Chemistry II *Recommended - See Physics advisor*
- ___ CHE 1850-2 General Chemistry Lab *Recommended - See Physics advisor*

Multicultural Requirement

- (may be satisfied within General Studies, major, minor or electives)
- ___ -3

MAJOR COURSES - consult a Physics advisor

- ___ * PHY 2311-4 General Physics I
- ___ * PHY 2321-1 General Physics I Lab
- ___ * PHY 2331-4 General Physics II
- ___ * PHY 2341-1 General Physics II Lab
- ___ PHY 2711-3 Vibrations and Waves
- ___ PHY 2811-4 Modern Physics I
- ___ PHY 3011-3 Modern Physics II
- ___ PHY 3211-4 Analytical Mechanics
- ___ PHY 3411-3 Thermal Physics
- ___ PHY 3711-2 Physics Lab I
- ___ PHY 3811-3 Quantum Mechanics I
- ___ PHY 4331-4 Electricity and Magnetism
- ___ PHY 4611-2 Computational Physics I
- ___ PHY 4711-2 Advanced Physics I Lab
- ___ PHY 4921-1 Physics Senior Seminar (Senior Experience)

*The following courses may be taken in substitution with the consent of the Physics department: PHY 2010- 4, PHY 2020-4, PHY2030-1, and PHY2040-1.

NOTE: Most of the above courses have math prerequisites. Check prerequisites in the current Metro State catalog before registering for the above courses.

Required Ancillary Courses: See catalog.mscd.edu for course prerequisites

- ___ MTH 1410-4 Calculus I ___ MTH 2420-4 Calculus III
- ___ MTH 2410-4 Calculus II ___ MTH 3420-4 Differential Equations

NOTE: Students are encouraged by the Physics department to complete one year of general chemistry and one year of electronics. See Physics advisor for details.

MINOR (Required)

ELECTIVES