

# Physics, B.S.

## 303-556-2454 North Classroom 3123

Catalog 10-11

This sheet applies to the 2010-2011 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
<b>Total to graduate (min. 40 hrs upper division)</b>	<b>120 min</b>

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

### GENERAL STUDIES

#### 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

#### 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)
- \_\_\_ CHE 1810-4 General Chemistry II (Recommended)
- \_\_\_ CHE 1850-2 General Chemistry Lab (Recommended)

#### Multicultural Requirement

- (*may be satisfied within General Studies, major, minor or electives*)
- \_\_\_ -3

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

### MAJOR COURSES

- \_\_\_ \* 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 MSCD catalog before registering for the above courses.**

#### Required Ancillary Courses:

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

One year of Electronics recommended—see advisor

MINOR (Required)

ELECTIVES