

# Physics, B.A.

## 303-556-2454 North Classroom 3123

Catalog 12-13

This sheet applies to the 2012 (1hr)3 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 hrs	
Major courses	31	
Required ancillary courses	8	
Minor courses	18 min	
Electives	29 hours	
<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.

### **\*TO BE COMPLETED WITHIN FIRST 30 COLLEGE-LEVEL CREDIT HOURS**

#### Written Communication

- \_\_\_ ENG 1010 (3 hrs) Freshman English: The Essay\*  
 or ENG 1008/1009 (6 hrs.) Freshman Comp: The Essay Part I & II\*  
 \_\_\_ ENG 1020 (3 hrs) Freshman English: Anal., Rsrch. & Docum.  
 (must be completed within 45 credit hours)

#### Quantitative Literacy\*

- \_\_\_ MTH 1110 (4 hrs) or higher-level math

#### Oral Communication\*

- \_\_\_ (3 hrs)

#### Arts and Humanities

- \_\_\_ (3 hrs)  
 \_\_\_ (3 hrs)

#### Historical

- \_\_\_ (3 hrs)

#### Natural and Physical Sciences May not be PHY courses.

- \_\_\_ (3hrs)  
 \_\_\_ (3hrs)

#### Social and Behavioral Sciences I

- \_\_\_ (3 hrs)

#### Social and Behavioral Sciences II

- \_\_\_ (3 hrs)

#### Global Diversity may be satisfied within General Studies. May not be a PHY course.

- \_\_\_ (3 hrs)

### **MAJOR COURSES (Please see a Physics Faculty Advisor)**

- \_\_\_ \* PHY 2311 (4hrs) General Physics I  
 \_\_\_ \* PHY 2321 (1hr) General Physics I Lab  
 \_\_\_ \* PHY 2331 (4hrs) General Physics II  
 \_\_\_ \* PHY 2341 (1hr) General Physics II Lab  
 \_\_\_ PHY 2711 (3hrs) Vibrations and Waves  
 \_\_\_ PHY 2811 (4hrs) Modern Physics I  
 \_\_\_ PHY 3011 (3hrs) Modern Physics II  
 \_\_\_ PHY 3711 (2hrs) Physics Lab I  
 \_\_\_ PHY 4921 (1hr) Physics Senior Seminar (Senior Experience)

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

#### PHYSICS ELECTIVES

A minimum of 8 additional credit hours of upper-division physics, 2 credit hours of which must be from either PHY 4611 or PHY 4711.

**NOTE: Most of the above courses have math prerequisites. Check prerequisites in the current MSU Denver catalog before registering for the above courses.**

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

- \_\_\_ MTH 1410 (4hrs) Calculus I  
 \_\_\_ MTH 2410 (4hrs) Calculus II

*Note: C- or better required in all courses in the program.*

### **MINOR (required)**

\_\_\_ **Multicultural Requirement** may be satisfied in Gen Studies, major, minor, or electives

### **ELECTIVES**