

# Chemistry, B.S. (also see Chemistry B.S. with ACS Certification)

303-556-2610 Science Building 3062

School of Letters, Arts, & Sciences

This sheet applies to the 2013-14 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 min	Student
Major courses	48	standards
Ancillary courses	12	CAP
Minor courses	18 min.	and re
<b>Total to graduate (min. 40 hrs. upper-division)</b>	<b>120 min.</b>	

## \*TO BE COMPLETED WITHIN FIRST 30-CREDIT HOURS AT MSU-Denver

### Written Communication

- \_\_\_ ENG 1010 (3 hrs.) Composing Arguments\*
- or** \_\_\_ ENG 1008/1009 (6 hrs.) Composing Arguments, Parts I & II\*
- \_\_\_ ENG 1020 (3 hrs.) Freshman English: Rsrch, Anly, & Documt.  
(to be completed within 60 credits at Metro)

### Oral Communication\*

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

### Quantitative Literacy\*

- \_\_\_ MTH 1110 (4 hrs.) College Algebra or higher level math
- NOTE: MTH 1110 & MTH 1120 **OR** MTH 1400 are prereq's for MTH 1410

### Arts and Humanities

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

### Historical

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

### Natural and Physical Sciences

- \_\_\_ PHY 2010(4 hrs.) College Physics I and PHY 2030 Lab (1hr.)
- \_\_\_ PHY 2020 (4 hrs.)College Physics II and PHY 2040 Lab(1hr.)
- or**
- \_\_\_ PHY 2311 (4 hrs.)General Physics I and PHY 2321 Lab (1 hr.)
- \_\_\_ PHY 2331 (4 hrs.)General Physics II and PHY 2341 Lab (1 hr.)

### Social and Behavioral Sciences I

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

### Social and Behavioral Sciences II

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

### Global Diversity

## MAJOR COURSES (Please see a Faculty Advisor)

- \_\_\_ CHE 1800 (4 hrs.) General Chemistry I
- \_\_\_ CHE 1810 (4 hrs.) General Chemistry II
- \_\_\_ CHE 1850 (2 hrs.) General Chemistry Lab
- \_\_\_ CHE 3000 (3 hrs.) Analytical Chemistry I
- \_\_\_ CHE 3010 (2 hrs.) Analytical Chemistry II
- \_\_\_ CHE 3100 (4 hrs.) Organic Chemistry I
- \_\_\_ CHE 3110 (3 hrs.) Organic Chemistry II
- \_\_\_ CHE 3120 (2 hrs.) Organic Chemistry Lab
- \_\_\_ CHE 3130 (2 hrs.) Organic Chemistry Lab
- \_\_\_ CHE 3250 (4 hrs.) Physical Chemistry I
- \_\_\_ CHE 3260 (4 hrs.) Physical Chemistry II
- \_\_\_ CHE 3280 (2 hrs.) Physical Chemistry Lab
- \_\_\_ CHE 3290 (2 hrs.) Physical Chemistry Lab

Chemistry Electives – A minimum of 10 hours of chemistry electives is required. Consultation with a faculty advisor: The Senior Thesis (CHE 4950) does not count as an elective. Student electives must be approved by the university.

- \_\_\_ CHE
- \_\_\_ CHE
- \_\_\_ CHE

## Required ancillary courses for a B.S.:

- \_\_\_ MTH 1410 (4 hrs.) Calculus I
- \_\_\_ MTH 2410 (4 hrs.) Calculus II
- \_\_\_ MTH 2420 (4 hrs.) Calculus III

## Multicultural Requirement

(may be satisfied within General Studies)

A 3 credit hour **Senior Experience** is required. See approved selections and prerequisites.

## MINOR (required)

## ELECTIVES