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.

<table>
<thead>
<tr>
<th>Category</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Studies</td>
<td>34 min</td>
</tr>
<tr>
<td>Major courses</td>
<td>48</td>
</tr>
<tr>
<td>Ancillary courses</td>
<td>12</td>
</tr>
<tr>
<td>Minor courses</td>
<td>18 min.</td>
</tr>
<tr>
<td><strong>Total to graduate (min. 40 hrs. upper-division)</strong></td>
<td><strong>120 min.</strong></td>
</tr>
</tbody>
</table>

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

**Written Communication**
- **ENG 1010 (3 hrs.)** Composing Arguments*
- **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 (1 hr.)
- **PHY 2020 (4 hrs.)** College Physics II and PHY 2040 Lab (1 hr.)
- **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**

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

Chemistry Electives – A minimum of 10 hours, consultation with a faculty advisor. The Senior Experience (4950) does not count as an elective. Student 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, see approved selections and prerequisites)

A 3 credit hour Senior Experience is required. **MINOR (required)**

**ELECTIVES**