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>
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<tr>
<th>General Studies</th>
<th>38</th>
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<tbody>
<tr>
<td>Major courses</td>
<td>50</td>
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<tr>
<td>Required ancillary courses</td>
<td>20-22</td>
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<tr>
<td>Required Options: A or B</td>
<td>10-20</td>
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<tr>
<td><strong>Total to graduate (min. 40 hrs. upper-division)</strong></td>
<td>120 (Option A)</td>
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<tr>
<td></td>
<td>127-130 (Option B)</td>
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</tbody>
</table>

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-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

*Arts and Humanities*
- (3 hrs.)
- (3 hrs.)

*Historical*
- (3 hrs.)

*Natural and Physical Sciences*
One of the following year-long physics sequences:
- PHY2010 (4 hrs.) College Physics I & PHY2030 (1 hrs.) College Physics I Lab
- PHY2020 (4 hrs.) College Physics II & PHY2040 (1 hrs.) College Physics II Lab
- PHY2311 (4 hrs.) General Physics I & PHY2321 (1 hrs.) General Physics I Lab
- PHY2331 (4 hrs.) General Physics II & PHY2341 (1 hrs.) General Physics II Lab

*Social and Behavioral Sciences I*
- (3 hrs.)

*Social and Behavioral Sciences II*
- (3 hrs.)

*Global Diversity*
- (3 hrs.) may be satisfied within General Studies

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**MAJOR COURSES** (Please see a Faculty Advisor)
- CHE1800 (4 hrs.) General Chemistry I
- CHE1810 (4 hrs.) General Chemistry II
- CHE1850 (2 hrs.) General Chemistry Lab
- CHE3000 (3 hrs.) Analytical Chemistry
- CHE3010 (2 hrs.) Analytical Chemistry Lab
- CHE3100 (4 hrs.) Organic Chemistry I
- CHE3110 (3 hrs.) Organic Chemistry II
- CHE3120 (2 hrs.) Organic Chemistry I Lab
- CHE3130 (2 hrs.) Organic Chemistry II Lab

**Additional Required Chemistry Courses:**
- CHE4100 (3 hrs.) Instrumental Analysis
- CHE4110 (2 hrs.) Instrumental Analysis Lab
- CHE4310 (4 hrs.) Biochemistry I
- CHE4350 (1 hrs.) Biochemistry Lab

**Required Criminalistics Courses:**
- CHE2710 (3 hrs.) Introduction to Criminalistics
- CHE3700 (4 hrs.) Criminalistics I
- CHE3710 (4 hrs.) Criminalistics II
- CHE4710 (3 hrs.) Criminalistics Internship II (Senior Experience)

**Required Ancillary courses:**
- BIO1080 (3 hrs.) General Introduction to Biology & BIO1090-1 Lab
- BIO3050 (4 hrs.) Cell and Molecular Biology
- BIO3600 (4 hrs.) General Genetics
- CJC2140 (3 hrs.) Criminal Procedure
- MTH1210 (4 hrs.) Introduction to Statistics
- MTH3210 (4 hrs.) Probability and Statistics
- MTH1410 (4 hrs.) Calculus I

**Required Physical Chemistry Options** (Select A or B):
- **Option A:**
  - CHE3190 (4 hrs.)
  - CHE3200 (1 hrs.)
  - CHE4700 (5 hrs.)
- **Option B:**
  - CHE3250 (4 hrs.)
  - CHE3280 (2 hrs.)
  - CHE3260 (4 hrs.)

**Required Multicultural Requirement**
(may be satisfied within General Studies, major, minor or elective)