# Mathematics, B.A./B.S., General Concentration

**Department of Mathematics & Computer Sciences, 303-556-3208, Science Building 1022**

**College of Letters, Arts, and Sciences**

This sheet applies to the 2014-15 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>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Studies</td>
<td>33 min</td>
</tr>
<tr>
<td>Major courses</td>
<td>42</td>
</tr>
<tr>
<td>Minor (determines BA or BS - see MTH advisor)</td>
<td>18 min</td>
</tr>
<tr>
<td>Electives</td>
<td>27</td>
</tr>
<tr>
<td>Total to graduate (min. 40 hrs upper division)</td>
<td>120 min</td>
</tr>
</tbody>
</table>

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

**Written Communication**
- **ENG 1010 (3 hrs)** Composing Arguments*
- or **ENG 1008/1009 (6 hrs.)** Intro to Composition, Parts 1 & 2*
- **ENG 1020 (3 hrs)** Freshman Comp: Analysis, Research, & Documt. (ENG 1020 must be completed within 45 credit hours)

**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 prereqs for MTH 1410 do _not_ take MTH 1112 College Algebra through Modeling

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

**Historical**
- **(3 hrs.)**

**Natural and Physical Sciences**
- **(3 hrs.)**
- **(3 hrs.)**

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

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

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

**MAJOR CORE COURSES** (Please see Math Advisor in M&CS dept)

All majors in mathematics are required to complete the following basic core of courses (with a required minimum grade of “C” in each of these courses).

- **MTH 1410 (4 hrs)** Calculus I
- **MTH 2410 (4 hrs)** Calculus II
- **MTH 2420 (4 hrs)** Calculus III
- **MTH 3100 (3 hrs)** Introduction to Mathematical Proofs

**Required General Concentration Courses**
- **MTH 4600 (1 hr)** Seminar in Problem Solving

**One of the following three courses:**
- **MTH 2510 (4hrs)** Computer Programming with Mathematica
  OR **CSS 1510 (4 hrs)** Computer Programming: FORTRAN
  OR **CS 1050 (4 hrs)** Computer Science 1
  OR **CSS 1247 (4 hrs)** Introduction to Programming: Visual Basic
  OR **CSS 1510 (4 hrs)** Computer Programming: FORTRAN

**22 hours from the catalog list of approved courses**

*Work with your Math advisor in the M&CS department.*

**MINOR (required) - Your choice of minor determines if you earn a BS or BA so work with your mathematics faculty advisor in M&CS on this selection.**

**Multicultural Requirement**

(may be satisfied within General Studies major, minor, or elective)

**ELECTIVES**

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