Mathematics, B.A./B.S., Probability & Statistics Concentration
Department of Mathematics & Computer Sciences, 303-556-3208, Science Building 1022
College of Letters, Arts, and Sciences

This sheet applies to the 2015-16 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 | 30 | Students who have reached junior standing (60 hrs.) should request a CAPP (graduation compliance report) and review it with a faculty advisor.
| Major courses | 44 |
| Minor (determines BA or BS - see MTH advisor) | 18 |
| Electives | 28 |
| Total to graduate (min. 40 hrs upper division) | 120 min |

*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.)

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 Probability & Statistics Concentration Courses
- ___ MTH 3140 (4 hrs.) Linear Algebra (or MTH 3130)
- ___ MTH 3210 (4 hrs.) Probability and Statistics
- ___ MTH 3220 (4 hrs.) Statistical Methods
- ___ MTH 4210 (4 hrs.) Probability Theory (Senior Experience)
- ___ MTH 4230 (4 hrs.) Regression and Computational Statistics
- ___ MTH 4250 (4 hrs.) Statistical Theory
- ___ MTH 4290 (1 hr.) Senior Statistics Project

One of the following five courses:
- ___ CS 1050 (4 hrs.) Computer Science I
  OR CSS 1247 (4 hrs.) Introduction to Programming: Visual Basic
  OR CSS 1510 (4 hrs.) Computer Programming: FORTRAN
  OR MTH 2520 (4 hrs.) R Programming
  OR MTH 3510 (4 hrs.) SAS Programming

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

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

ELECTIVES