

Mathematics, B.S., Probability & Statistics Concentration

303-556-3207 Science Building 1022

Catalog 11-12

This sheet applies to the 2011-2012 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	Students who have reached junior standing (60 hrs) should request a CAPP (graduation compliance report) and review it with a faculty advisor.
Major courses	42	
Minor courses	18 min	
Electives	26	
Total to graduate (min. 40 hrs upper division)	120 min	

GENERAL STUDIES

Composition

- ___ ENG 1010-3 Freshman Comp: the Essay
- ___ ENG 1020-3 Freshman Comp: Anal., Rsrch & Docum.

Mathematics

- ___ MTH 1110-4 College Algebra or higher level math

Communications

- ___ -3

Historical

- ___ -3

Arts & Letters

- ___ -3
- ___ -3

Social Sciences

- ___ -3
- ___ -3

Natural Sciences

- ___ -3
- ___ -3

Multicultural Requirement

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

- ___ -3

MAJOR COURSES

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

Select one of the following:

- ___ CIS 1050-4 Computer Science I
- ___ CSS 1247-4 Introduction to Programming: Visual Basic
- ___ CSS 1510-4 Computer Programming: FORTRAN
- ___ MTH 3510-4 SAS Programming

Complete all of the following:

- ___ **MTH 2140-2 Computational Matrix Algebra
- ___ MTH 3210-4 Probability & Statistics
- ___ MTH 3220-4 Design of Experiments
- ___ MTH 4210-4 Probability Theory (Senior Experience)
- ___ MTH 4230-4 Applied and Computational Statistics
- ___ MTH 4250-4 Statistical Theory
- ___ MTH 4290-1 Senior Statistics Project

*Some sections of this course have a *Mathematica* component.

** MTH 3130 or 3140 may be substituted for MTH 2140 with faculty approval.

A grade of "C" or better is required in each course included in the major.

MINOR (Required)

ELECTIVES