

Mathematics, B.S., Theoretical Mathematics Concentration

303-556-3208 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
Major courses	39
Minor courses	18 min
Electives	29
Total to graduate (min. 40 hrs upper division)	120 min

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

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

One of the following courses:

- ___ CS 1050-4 Computer Science I
- ___ CSS 1247-4 Intro to Programming: Visual Basic
- ___ CSS 1510-4 Computer Programming: FORTRAN

All four of the following courses:

- ___ MTH 3110-3 Abstract Algebra I
- ___ MTH 3140-4* Linear Algebra
- ___ MTH 4410-4 Advanced Calculus I (Senior Experience)
- ___ MTH 4420-3 Advanced Calculus II

Two of the following courses:

- ___ MTH 4110-3 Abstract Algebra II
- ___ MTH 4450-4 Complex Variables
- ___ MTH 4660-3 Topology

*MTH 3130 and one of the following (MTH 3650, MTH 4150, MTH 4640) may substitute for MTH 3140.

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

MINOR (Required)

ELECTIVES