

# Mathematics, B.S., Theoretical Mathematics Concentration

303-556-3208 Science Building 1022

Catalog 10-11

This sheet applies to the 2010-2011 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
<b>Total to graduate (min. 40 hrs upper division)</b>	<b>120 min</b>

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
- \_\_\_ MTH 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