

Mathematics, B.A./B.S., Theoretical Mathematics Concentration

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

College of Letters, Arts, and Sciences

Catalog 15-16

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
Major courses	39-40
Minor (determines BA or BS - see MTH advisor)	18
Electives	32--33
Total to graduate (min. 40 hrs. upper division)	120

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

*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 a 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 Courses

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

One of the following three courses:

- ___ CS 1050 (4 hrs.) Computer Science 1
OR MTH 2510 (4 hrs.) Computer Programming with Mathematica
OR CSS 1510 (4 hrs.) Computer Programming: FORTRAN

Two of the following courses:

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

- ___ MTH 4110 (3 hrs.) Abstract Algebra II
___ MTH 4150 (3 hrs.) Elementary Number Theory
___ MTH 4450 (4 hrs.) Complex Variables
___ MTH 4660 (3 hrs.) Topology

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