

## B.S.Ed., Secondary Education, Mathematics

### Program of Study

## Core Courses

- **(26 credits)**
- COMP160 Programming I (3 credits)
- MATH141 Calculus 1 (3 credits)
- MATH142 Calculus 2 (3 credits)
- MATH243 Calculus 3 (3 credits)
- MATH205 Foundations of Mathematics (3 credits, spring only)
- MATH310 Modern Algebra I (3 credits, spring only)
- MATH311 Elements of Linear Algebra (3 credits, spring only)
- MATH401 Real Analysis I (3 credits, fall only)
- MATH??? Elective over MATH112, 102, 107 (2 credits)

## Pure Discipline

- **(9 credits)**
- MATH225 History of Mathematics (3 credits, fall only)
- MATH302 Number Theory (3 credits, fall only)
- MATH307 Foundations of Geometry (3 credits, fall only)

## Applied Discipline

- MATH312 Probability and Statistics (3 credits, fall only)

## Professional Mathematics Education Discipline

- **(18 credits)**
- MATH200 Methods of Teaching Mathematics I (2 credits, spring only)
- MATH316 Methods of Teaching Mathematics II (4 credits, fall only)
- MATH493 Student Teaching and Practicum I (6 credits)
- MATH494 Student Teaching and Practicum II (6 credits)

## Professional Education Courses from Supporting Departments

- **(12 credits)**
- PSYC103 Adolescent Development (3 credits)
- EDUC101 Social Foundations of Education (2 credits)
- ~~EDTH205 Educational Media 1 (1 credit)~~
- ~~EDTH311 Educational Media 2 (1 credit)~~
- EDUC312 Classroom Management (2 credits)
- PSYC207 Educational Psychology (3 credits)

## General Education Courses (52 credits)

NOTE: While these are meant to be “anything” you wish to take, there are certain courses that are required for your degree. So you really don’t have complete freedom. Also, there are certain courses that are highly recommended that you take.

## General Education

- **Wellness Core** (3 credits)
  - These can be any courses you wish to take
- **Skills core**
  - Composition (3 credits)
  - Speech (3 credits)
    - » These must be the composition course and any speech course satisfying general education credits.
- **NOTE:** Your math credits will be obtained in the major, but the credits themselves must be made up in free electives.

## General Education

- **Humanities**
  - Art/Music/ Theatre (6 credits)
  - Literature (3 credits)
  - Philosophy (3 credits)
    - » These must be the literature course and any credits satisfying general education.
- **Social and Behavioral Sciences**
  - World History (3 credits)
  - Government/Economics (3 credits)
  - Sociology/Anthropology (3 credits)
- **NOTE:** Your psychology credits are obtained by a required course for the major. But the credits themselves must be made up in free electives.

## General Education

- **Natural Sciences** (6 credits)
  - **NOTE:** While these can be any courses you want, it is **STRONGLY** suggested that you take Physics.

## General Education

- **Free Electives** (16 credits)
  - While these credits can technically be anything you want them to be, it is **STRONGLY** recommended that you take your Special Education course here, as this is now a state requirement for students graduating in 2013 or after.
  - It is also suggested that you take any of the following that you can fit into your schedule: MATH102, MATH215, MATH107, an extra science course, or foreign languages. These will make you much more marketable when you begin looking for a job.
  - **DO NOT BE AFRAID TO TAKE MORE THAN 120 CREDITS!**

## Overlays

- Two courses designated Multicultural
- Three courses designated Writing Emphasis
- Two courses designated Information Literacy
- Two courses designated External Experience
- **NOTE:** These can overlap, meaning that one course can meet more than one of these overlay requirements

## HW

- Re-examine the Sample Four-Year Plans on pages 25 – 27 and see with which one you best relate.
- Work on the schedule form for next semester.