• **MATHEMATICS EDUCATION**

**Requirements for the B.S. Degree (BMA):** In addition to the courses listed below, students must complete "Preliminary Requirements for Students entering Teacher Education Programs (see statement under main college heading)."

**Prerequisites (State Mandated Common Prerequisites):**
These prerequisites must be met by transfer students as well as USF students. A grade of "C" is the minimum acceptable grade.

- **EDF X005 Introduction to Education** 3
- **EDG 2701 Teaching Diverse Populations** 3
- **EME 2040 Introduction to Educational Technology** 3
  *(equivalent course or demonstrated competency may be substituted)*
- **Calculus and Analytic Geometry I** 4
- **Calculus and Analytic Geometry II** 4
- **Elective in Mathematics** 4
  *(Both MAC 2313 Calculus III and STA 2023 Elementary Statistics are required at USF for native students and are strongly recommended for transfer students.)*
- **Computer Programming Language** 3
  *(applicable to microcomputer and may be satisfied with MAE 4652)*

*May be part of General Education Requirements*

In addition to EDG 2701, lower division courses must include 6 credit hours with an international or diversity focus (see list of approved courses under "Preliminary Requirements for Students Entering Teacher Education Programs" on the first page of the College of Education section). Professional education courses taken at the community college will transfer as general electives.

**Professional Education Core (29 cr. hrs.):**
The required courses in the professional education core are as follows:

- **EDF 3214 Human Development and Learning** 3
- **EDF 3604 Social Foundations of Education (Exit)** 3
- **EDG 4620 Curriculum and Instruction** 3
- **EDF 4430 Measurement for Teachers** 3
- **EEX 4070 Integrating Exceptional Students in the Regular Classroom** 2
- **FLE 4365 ESOL Competencies and Strategies** 3
- **MAE 4940 Internship: Mathematics Education** 10
- **MAE 4936 Senior Seminar in Mathematics Education** 2

**Specialization (29 cr. hrs.):**

- **MAC 2313 Calculus III** 4
- **MAD 3100 Discrete Mathematics** 3
- **MAS 3105 Linear Algebra** 3
- **MAS 4214 Elementary Number Theory** 3
- **MAS 4301 Elementary Abstract Algebra** 3
- **MGF 3301 Bridge to Abstract Mathematics** 3
- **MHF 4403 Early History of Math (Exit)** 3
- **MTG 4212 Geometry** 4
- **STA 2023 Elementary Statistics** 4

**Mathematics Education (14 cr. hrs.):**

- **MAE 4320 Middle School Methods** 3
- **MAE 4330 Senior High School Methods** 3
- **MAE 4551 Reading the Language of Mathematics** 2
- **MAE 4652 Technology for Teaching Secondary School Mathematics I** 3
- **MAE 4653 Technology for Teaching Secondary School Mathematics II** 3