MATHEMATICS EDUCATION (S4200)

**Prerequisites**

*Education Prerequisites* - 12 credits (3 credits each):

- EDF1005  Introduction to the Teaching Profession*
- EDF2085  Introduction to Diversity*
- EME2040  Introduction to Educational Technology
- EEX2000  Introduction to Special Education

**Florida Department of Education Requirements:**
- Communications (6 credits)
- Oral Communications (3 credits)
- Humanities (6 credits)
- Behavioral/Social Sciences (6 credits)
- Natural Sciences (6 credits)
- Mathematics & Electives (21 credits)
  - MAC1147 – PreCalculus, Algebra & Trigonometry (5 credits)
  - MAC2311 – Calculus & Analytical Geometry I (5 credits)
  - MAC2312 – Calculus & Analytical Geometry II (4 credits)
  - MAC2313 – Calculus & Analytical Geometry III (4 credits)
  - STA2023 Statistical Methods (3 credits)
- 9 credits of diversity
- Foreign Language requirement
- Completion of CGS1060 or an equivalent computer competency
- Fingerprinting requirement (Level II background clearance)

**Admission to the Baccalaureate Program**
- 60 credits (General Education requirements)
- Minimum GPA of 2.5 on a 4.0 scale
- Passing all parts of the General Knowledge Test of the Florida Teacher Certification Examination
- All Education prerequisites passed with a minimum grade of “C”

**THIS PROGRAM WILL BE OFFERED WHEN THERE ARE ENOUGH STUDENTS TO CREATE A COHORT.**

**Professional Education Core – 18 credits (3 credits each)**

- EDF4430  Measurement and Assessment in Education
- EDG3321  General Teaching Skills*
- EDG3443  Classroom and Behavior Management*
- EEX3071  Teaching Exceptional and Diverse Students in Inclusive Settings*
- RED3393  Differentiated Instruction in Content Reading*
- TSL4324C ESOL Strategies for Content Area Teachers*

*FTCE Professional Test must be passed upon completion of the above Professional Education Core Courses.*

**Mathematics Education Discipline Content – 8 credits**

- EME3430  Instructional Technology in Math & Science (2 credits)
- MAE4360  Methods of Teaching Mathematics* (3 credits)
- MAE4940  Advanced Topics in Mathematics Education Practicum** (3 credits)

**Discipline Content – 22 credits**

- MAD3107  Discrete Structures (3 credits)
- MAP2302  Introduction to Differential Equations (3 credits)
- MAS3105  Linear Algebra (3 credits)
- MAS3301  Algebraic Structures (3 credits)
- MAS4203  Number Theory (3 credits)
- MHF4404  History of Mathematics (3 credits)
- MTG3214  Euclidean Geometry (4 credits)

*FTCE Subject Area Examination must be passed upon completion of the Practicum Course.*

**Student Teaching/Internship – 12 credits**

- MAE4945  Internship in Mathematics Education***
- MAE4930  Seminar in Mathematics Education***

Prior to Internship the following must be completed:
- All parts of the Florida Teacher Certification Examination (General Knowledge Test, Professional Test and Subject Area Test) must be passed
- Florida Educator Accomplished Practices E-Portfolio must be approved
- All previous coursework completed with a minimum grade of “C”

*Course requires 15 hours of clinical experience
**Course requires 60 hours of clinical experience
***Course requires full-time clinical experience