• 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
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology

• Nine (9) hours of Mathematics (to include College Algebra or above and Geometry)*
• Twelve (12) hours of Social Science (to include American History and General Psychology)
• Nine (9) hours of Natural Science (to include an Earth Science course, a Life Science course and a Physical Science course)
• One (1) Natural Science Course must have a lab component
• Six (6) hours of International or Multicultural Focus
• Nine (9) hours of English (to include Writing, Literature and Speech)
• Six (6) hours Humanities (to include Philosophy and Fine Arts)
• Other program prerequisites:
  Four (4) hours Calculus & Analytic Geometry I
  Four (4) hours Calculus & Analytic Geometry II
  Four (4) hours Electives in Mathematics
  Three (3) hours Computer Programming Language (applicable to microcomputer)

*Only courses with the prefixes MGF, MTG, MAC, and STA will qualify for the courses in mathematics. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement.

Professional Education (32 credit hours):
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 (30-31 credit hours):
MAC 2313 Calculus III 4
MAD 3100 Discrete Mathematics 3
MAS 3105 Linear Algebra 3
MAS 4214 Elementary Number Theory 4
MAS 4301 Elementary Abstract Algebra 3
MGF 3301 Bridge to Abstract Mathematics 4
MHF 4403 Early History of Math (Exit) 3
MTG 3212 Geometry 3
MTG 4212 Geometry 3
or
MTG 4214 Modern Geometry 4
STA 2023 Elementary Statistics 4

Additional Specialization (15 credit hours):
MAE 4320 Middle School Methods 3
MAE 4330 Senior High School Methods 3
MAE 4551 Reading the Language of Mathematics 3

MAE 4652 Technology for Teaching Secondary School Mathematics I 3
MAE 4653 Technology for Teaching Secondary School Mathematics II 3