The University of Georgia  
College of Education  
Department of Mathematics and Science Education  
BS/BSED in Mathematics Education & Mathematics

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**Area I: Foundation Courses (9 Hours)**

- 3 ENGL 1101 English Composition I
- 3 ENGL 1102 English Composition II
- 3 MATH 1113 or MATH 2250 Pre-Calculus or Calculus I for Science and Engineering (MATH 2250 Preferred)

**Area II: Sciences (7-8 Hours) One Physical Science and One Life Science Required; at least one must have a laboratory**

- 3-4 Physical Science (PHYS 1211-1211L Preferred)
- 3-4 Biological Science (See Franklin College Requirements)

**Area III: Quantitative Reasoning (3-4 Hours)**

- 4 MATH 2250 or MATH 2260 Calculus I or II for Science and Engineering (Preferred; Requires MATH 1113 and/or MATH 2250)

**Area IV: World Languages and Culture; Humanities and the Arts (12 Hours)**

- 3 World Language and Culture (See Franklin College Language Requirement)
- 3 World Language and Culture (See Franklin College Language Requirement)
- 3 World Language and Culture (See Franklin College FA/PHIL/RELI Requirement)
- 3 Humanities and the Arts (See Franklin College FA/PHIL/RELI Requirement)

**Area V: Social Sciences (9 Hours)**

- 3 POLS 1101 American Government (Satisfies U.S. & Georgia Constitution requirement)
- 3 HIST 2111/2112 American History to/since 1865 (Satisfies U.S. & Georgia History requirement)
- 3 Social Science (See Franklin College Social Science Requirement)

**Area VI: Courses Related to the Major (19 Hours Minimum)**

- 3 EDUC 2110 Critical Issues in Education
- 3 EDUC 2120 Exploring Socio-Cultural Perspectives on Diversity (Satisfies Cultural Diversity requirement)
- 3 EPSY 2130 Exploring Learning and Teaching
- 3 SPED 4030 Inclusion of Students with Special Needs, Grades 6-12
- 3-4 MATH 2270/2500 Calculus III or Multivariable Calculus (MATH 2270 Preferred)

**Choose One of the Following if another course from the list has been used elsewhere in Areas I-V. Otherwise, Choose Two of the Following:**

- 4 PHYS 1211-1211L Principles of Physics for Scientists and Engineers—Mechanics, Waves, Thermodynamics
- 4 PHYS 1212-1212L Principles of Physics for Scientists and Engineers—Electricity and Magnetism, Optics, Modern Physics
- 4 CSCI 1301-1301L Introduction to Computing and Programming
- 4 CSCI 1302 Software Development
- 3 STAT 4210 Statistical Methods

**NOTE:** Students with credit in MATH 2500 may not earn credit in MATH 2270, and vice versa.
Entrance Requirements: (1) Completion of Core Areas I-V. (2) Completion of MATH 2260, MATH 2260, and MATH 3200—Courses can be “in progress” when applying to the program. (3) Passing score on the GACE Program Admission Assessment or exempt this test with either an SAT score of 1000 (Verbal and Quantitative) or ACT score of 43 (English and Math). (4) A minimum overall G.P.A of 2.5. (5) All teacher education candidates are required to have a GaPSC pre-service certificate prior to beginning field experience.

Courses Related to the Program (NOTE: All courses listed below must be passed with a grade of “C” or higher)

Required Content Courses

3 MATH 3200 Introduction to Higher Mathematics (Requires MATH 2260)
3 MATH 3000 Introduction to Linear Algebra (Requires MATH 3200)
3 MATH 3100 Sequences and Series (Requires MATH 3200)
3 MATH 4000 Modern Algebra and Geometry I (Requires MATH 3200)
3 MATH 5200 Foundations of Geometry I (Requires MATH 3000 and MATH 3200)

Choose One of the Following

3 STAT 4510 Mathematical Statistics I (Requires MATH 2270 or MATH 2500)
3 MATH 4600 Probability (Requires MATH 2270 or 2500, MATH 2260 or 3100)

Choose One (3 hours) from the Following

3 MATH 4100 Real Analysis (Requires MATH 3100 and MATH 3200)
3 MATH 4150 Complex Variables (Requires MATH 2270 or MATH 2500 and MATH 3100)
3 MATH 4250 Differential Geometry (Requires a combination of MATH 2270, 2500, 3000, 3200, and 3300)
3 MATH Elective One 3000-level or above MATH (except MATH 5001, 5002, 5003, 5020, 5030, 5035)

Professional Education Courses

3 EMAT 3700 Connections in Secondary School Mathematics I
3 EMAT 4800 Teaching Secondary School Mathematics I
1 EMAT 4800L Field Experience I
3 EMAT 3800 Connections in Secondary School Mathematics II
3 EMAT 4850 Teaching Secondary School Mathematics II
1 EMAT 4850L Field Experience II
3 EMAT 3900 Connections in Secondary School Mathematics III
3 EMAT 4900 Teaching Secondary School Mathematics III
1 EMAT 4900L Field Experience III
12 EMAT 5460** Student Teaching in Secondary School Mathematics
3 EMAT 4950 Professional Seminar in Teaching Mathematics

**NOTE: Students electing the “Teaching Advanced Mathematics” degree emphasis can elect to replace EMAT 5460 with EMAT 5700, EMAT 4920 and an additional EMAT elective. EMAT 5700 must be taken with EMAT 4950.

Physical Education

1 PEDB Physical Education

Minimum Semester Hours: 120 (This total does not include the 1-hour PEDB course)

Contact (College of Education) Franklin College (0-29 Hours) Mathematics Department (30+ Hours)
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