**B.S. Mathematics – Teacher Certification**

**2014-2015 Catalog**

This plan is an unofficial document used for advisement only.

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**How to use this program plan:** Write the grade for the course that satisfies each requirement. If the student takes a course that is chosen from a list of possible courses, circle the course number taken in addition to writing the grade.

### General Education: (60 hours)

**School** | **Grade**
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**Area A - Essential Skills: (9 hours)**

- ENGL 1101 English Composition I
- ENGL 1102 English Composition II
- MATH 1113 Pre-calculus OR MATH 2200 Calculus I

**Area B - Institutional Option (4 hours)**

- ITEC 1001 Introduction to Computing

**Area C - Humanities/Fine Arts (6 hours)**

Select one from the following:
- MUSC 1100/ARTS 1100/ENGL 2110/2100/FILM 1005
- RELN 1100/GEOG 1101/2000 level foreign languages

**Area D – Natural Sciences, Math, Technology (11 hours)**

- CHEM 1211K Principles of Chemistry I
- CHEM 1212K Principles of Chemistry II

Select one from the following:
- ITEC 2110 Digital Media
- ITEC 2120 Introduction to Programming

**Area E – Social Science (12 hours)**

- POLS 1101 American Government
- HIST 2111 or HIST 2112 U.S. History I & II

Select one course:
- HIST 2111 (if not used above)
- HIST 2112 (if not used above)
- HIST 1111 World History I
- HIST1112 World History II
- HIST 1121 Western Civ I
- HIST1122 Western Civ II

Select one of the following:
- PSYC 1102/SOCI 1101/ANTH 1102/ECON2100

**Area F – Courses Related to the Program of Study (18 hours) (“C” or better)**

- MATH 2200 Calculus I (if not taken in Area A)
- MATH 2210 Calculus II
- MATH 2220 Calculus III
- MATH 2450 Linear Algebra I
- MATH 2500 Foundations of Mathematics

Select one if MATH 2200 is taken in Area A:
- MATH 2000/MATH 2300/MATH 2600

1 hour each from Area A and D

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**Additional Requirements (3 hours)**

**Physical Education Requirement**

- Choices for Life (1 hour)
- Additional Physical Education (2 hours)

**Additional Requirements**

- Admission to Teacher Education

**Regents Requirements** – The requirements for US and Georgia History and Constitution can be satisfied by transfer credit of HIST 2111 OR 2112 and POLS 1101 from a University System of Georgia institution. If not satisfied, the student should work with their adviser concerning exemption exams or can complete the courses.

- US Constitution
- Georgia Constitution
- US History
- Georgia History

**Program of Study: (60 hours) Grade of “C” or Better**

(38 hours must be at the 3000-4000 level)

**School** | **Grade**
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**Required Mathematics Courses (24-27 hrs)**

- MATH 2300 Discrete Mathematics
- MATH 3021 Geometry
- MATH 3300 Probability and Statistics
- MATH 3500 Abstract Algebra I
- MATH 3550 History of Mathematics
- MATH 3700 Real Analysis I
- MATH 4900 Capstone Course

Select one of the following:
- MATH 4500 Abstract Algebra II
- MATH 4700 Real Analysis II

**Mathematics Elective Courses (6-9 hours)**

- MATH 3100 Differential Equations I
- MATH 4150 Complex Analysis
- MATH 4250 Topology
- MATH 4500 Abstract Algebra II
- MATH 4600 Adv Mathematical Modeling
- MATH 4700 Real Analysis II

**Required Education Courses (35 hours)**

**(Formal Admission to Teacher Education Required)**

- EDUC 2110 Exploring Critical & Contemporary Issues in Education*
- EDUC 2120 Exploring Socio-Cultural Perspectives on Diversity in Educ. Contexts*
- EDUC 2130 Exploring Learning and Teaching*
- EDUC 3300 Characteristics of Learners
- EDUC 3350 Models of Teaching and Learning
- MATH 3600 Math Contents Methods
- EDUC 4060 Opening of School Experience: Mathematics
- EDUC 4500 Assessment
- EDUC 4550 Instructional Adaptation
- EDUC 4800 Leadership Seminar
- EDUC 4865A Student Teaching: Prof Prac MATH
- EDUC 4865B Student Teaching: Prof Prac MATH

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* Revised 04/2014