**B.S. Mathematics – Teacher Certification**  
**2011-2012 Catalog**  
This plan is an unofficial document used for advisement only.

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)

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<th>School</th>
<th>Grade</th>
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| **Area A - Essential Skills: (9 hours)**  
*"C" or better*  
| 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)**  
| Choose one from the following:  
MUSC 1100/ARTS 1100/ENGL 2110/2100/FILM 1005  
RELN 1100/GEOG 1101/2000 level foreign lang |
| **Area D – Natural Sciences, Math, Technology (11 hours)**  
| CHEM 1211 and 1212K  
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 1110/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  
Choose one if MATH 2200 is taken in Area A:  
MATH 2000/MATH 2300/MATH 2600  
1 hour each from Area A and D |

### Additional Requirements (3-4 hours)

| Physical Education Requirement  
| Wellness (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)

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<tr>
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| **Required Mathematics Courses (24-27 hrs)**  
| MATH 2300 Discrete Mathematics  
MATH 3000 Geometry  
MATH 3300 Probability and Statistics  
MATH 3500 Abstract Algebra I  
MATH 3550 History of Mathematics  
MATH 3700 Real Analysis I  
Choose one of the following:  
MATH 4500 Abstract Algebra II  
MATH 4700 Real Analysis II  
MATH 4900 Capstone Course |
| **Mathematics Elective Courses (6-9 hours)**  
| MATH 3100 Differential Equations I  
MATH 4150 Complex Analysis  
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 Educational Contexts*  
EDUC 2130 Exploring Learning and Teaching*  
EDUC 3300 Teaching Exceptional 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 4860 Student Teaching: Mathematics |