

**B.S. Mathematics – Applied Math  
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)**

**School Grade**

**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

*Choose one from the following:*

- \_\_\_\_\_ RELN 1100/GEOG 1101/2000 level foreign lang

**Area D – Science, Math, Technology (11 hrs)**

- \_\_\_\_\_ CHEM 1211K and 1212K

*Choose one from the following:*

- \_\_\_\_\_ ITEC 2110/ ITEC 2120

**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
- \_\_\_\_\_ HIST 1112 World History II
- \_\_\_\_\_ HIST 1121 Western Civ I
- \_\_\_\_\_ HIST 1122 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
- \_\_\_\_\_ *Choose one if MATH 2200 is taken in Area A:*  
MATH 2000/MATH 2300/MATH 2600
- \_\_\_\_\_ 1 hour each from Area A and D

Student Name \_\_\_\_\_

. Id No \_\_\_\_\_

S. Phone (w) \_\_\_\_\_ (h) \_\_\_\_\_

S. alt. email \_\_\_\_\_

Adviser \_\_\_\_\_

A. phone \_\_\_\_\_

A. email \_\_\_\_\_

**Program of Study: (60 hours) Grade of “C” or Better  
(39 hours must be at the 3000-4000 level)**

**School Grade**

**Required Mathematics Courses (27 hours)**

- \_\_\_\_\_ MATH 3100 Differential Equations I
- \_\_\_\_\_ MATH 3300 Probability and Statistics
- \_\_\_\_\_ MATH 3350 Applied Mathematics
- \_\_\_\_\_ MATH 3450 Numerical Methods I
- \_\_\_\_\_ MATH 3500 Abstract Algebra I
- \_\_\_\_\_ MATH 3700 Real Analysis I
- \_\_\_\_\_ MATH 4100 Differential Equations II
- \_\_\_\_\_ MATH 4600 Adv Mathematical Modeling
- \_\_\_\_\_ Choose one of the following:  
MATH 4900/STEC 4500

**Math/Applied Elective Courses (8 hours)**

- \_\_\_\_\_ MATH 3400 Linear Algebra II
- \_\_\_\_\_ MATH 4150 Complex Analysis
- \_\_\_\_\_ MATH 4250 Topology
- \_\_\_\_\_ MATH 4300 Probability & Statistics II
- \_\_\_\_\_ MATH 4500 Abstract Algebra II
- \_\_\_\_\_ MATH 4700 Real Analysis II

**Required Courses in Applied Field (12 hrs)**

- \_\_\_\_\_ Any level (8 hrs)
- \_\_\_\_\_ 3000/4000 level (4 hrs)

**Other Required Courses (0–7 hours)**

- \_\_\_\_\_ ITEC 2120 Introduction to Programming  
(if not taken in Area D)
- \_\_\_\_\_ MATH 2600 Mathematical Modeling  
(if not taken in Area F)

**Additional Electives (6–13 hours)**

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Additional Requirements**

**Physical Education Requirement**

- \_\_\_\_\_ Wellness (1 hour)
- \_\_\_\_\_ Additional Physical Education (2 hours)

Student Success courses may be required for entry in other courses.  
**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