

**B.S. Mathematics – Pure 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 (24 hours)

- _____ MATH 3300 Probability and Statistics
- _____ MATH 3500 Abstract Algebra I
- _____ MATH 3700 Real Analysis I
- _____ MATH 3100 Differential Equations I
- _____ Choose one of the following:
- _____ MATH 4150 Complex Analysis
- _____ MATH 4250 Topology
- _____ Choose one of the following:
- _____ MATH 4700 Real Analysis II
- _____ MATH 4500 Abstract Algebra II
- _____ MATH 4900 Capstone Course (6 hrs)

Mathematics Elective Courses (9 hours)

- _____ MATH 3400 Linear Algebra II
- _____ MATH 4100 Differential Equations II
- _____ MATH 4600 Adv Mathematical Modeling
- _____ MATH 4700 Real Analysis II
- _____ MATH 4500 Abstract Algebra II
- _____ MATH 4300 Probability & Statistics II

Other Required Courses (8–12 hours)

- _____ PHYS 2211K Principles of Physics I
- _____ PHYS 2212K Principles of Physics II
- _____ ITEC 2120 Introduction to Programming
(if not taken in Area D)

Additional Electives (15–19 hours)

At least 4 hrs must be at 3000-4000 level

Additional Requirements

Physical Education Requirement

- _____ Wellness (1 hour)
- _____ Additional Physical Education (2 hours)

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