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

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