



Georgia Gwinnett

COLLEGE

B.S. Mathematics – Applied Math 2016-2017 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)

Select one from the following:

- _____ MUSC 1100/ARTS 1100/ENGL 2111, 2112, 2121, 2122, 2131, 2132/FILM 1005

Select one from the following:

- _____ RELN 1100/GEOG 1101/2000 level foreign lang

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

- _____ 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
- _____ HIST 1112 World History II
- _____ HIST 1121 Western Civ I
- _____ HIST 1122 Western Civ II

Select one of the following:

- _____ PSYC1102/SOCI1101/ANTH1102/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

Student Name _____
. Id No _____
S. Phone (w) _____ (h) _____
S. alt. email _____
Adviser _____

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
- _____ MATH 4900 Capstone Course

Math/Applied Elective Courses (9 hours)

Any combination of 3000/4000 level MATH courses (except MATH 3008,3011,3111,3311 or 3600) or 3000/400 classes from the Approved* Applied Field.

Required Courses in Applied Field (12 hrs)

- _____ Approved* Applied Field Any Level (8 hrs)
- _____ Approved *Applied Field 3000/4000 level (4 hrs)

***Applied Field and Applied Elective Course must be approved in writing by a designated Applied Math faculty advisor**

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 5–12 hours)

Additional Requirements (3)

Physical Education Requirement

- _____ Choices for Life (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