

NAME: _____

ID#: _____

IN EFFECT FALL 2021

APPLIED MATHEMATICS CURRICULUM (AMTH)

FRESHMAN YEAR

ENGL 1100 English Comp I.....3	ENGL 1120 English Comp II.....3
MATH 1610 Calculus I.....4	MATH 1620 Calculus II.....4
CORE SOCIAL SCIENCE.....3	CORE SCIENCE ³4
CORE HUMANITIES.....3	COMP 1200 Computer Science.....2
CORE HISTORY3	CORE HISTORY or LIT ¹3
16	16

SOPHOMORE YEAR

MATH 2630 Calculus III.....4	MATH 2650 Linear Diff Eq.....3
MATH 2660 Topics in Linear Alg.....3	MATH 3100 Intro to Adv Math.....3
CORE SCIENCE ³4	STAT 3600 Prob & Stat.....3
Interdisciplinary Elective ⁴3	Interdisciplinary Elective ⁴3
CORE LITERATURE.....3	CORE SOCIAL SCI or HUM ²3
17	15

JUNIOR YEAR

MATH 5200 Analysis I.....3	MATH 5210 Analysis II.....3
MATH 5630 Numerical Analysis I.....3	MATH 5640 Numerical Analysis II.....3
Interdisciplinary Elective ⁴3	Interdisciplinary Elective ⁴3
CORE SOCIAL SCIENCE.....3	CORE FINE ARTS3
Elective4	Elective4
16	16

SENIOR YEAR

MATH 5670 Prob & Stoch Proc I.....3	Math Elective⁴.....3
MATH 5000 Math Modeling: Cont.....3	Math Elective⁴.....3
Math Elective⁴.....3	Math Elective⁴.....3
Interdisciplinary Elective ⁴3	Elective.....3
12	UNIV 4AA0 SM1 University Graduation.....0
	12

TOTAL HOURS 120

Long range schedules for COSAM courses are online at www.auburn.edu/cosam/students/

Courses in **BOLD** will be used to calculate GPA in major.

Options for courses labeled CORE are in the AU Bulletin (www.auburn.edu/bulletin) under Core Curriculum.

¹ Students must complete a two-course sequence in either HIST or LIT (for example, World History 1 and 2 or American Lit 1 and 2). For complete HIST and LIT sequence options, see the Bulletin.

² If a LIT sequence is chosen, this course must be a CORE SOC SCI. If a HIST sequence is chosen, this course must be a CORE HUMANITIES.

³ Core Science: One of the sequences PHYS 1600*/1610, BIOL 1020 /1030 with labs, CHEM 1030/1040 with labs, or GEOL 1100/1110. *MATH 1610 is a prerequisite to PHYS 1600.

⁴ Guidelines for Math Elective and Interdisciplinary Elective are on the back of this sheet.

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Choices for courses satisfying requirements for Core Sciences, Math Electives, and Interdisciplinary Electives must constitute a coherent plan chosen with approval of advisor.

MATH ELECTIVES: Courses designated MATH or STAT at the level of 3000 or higher, no more than one 3000-level course. Subject to advisors approval.

Interdisciplinary Electives: Students should consult with MATH advisors in choosing interdisciplinary electives and must have a plan of study on file in the Dean's Office in order to be cleared for graduation. In general, students may choose from 2000 level courses or above in the schools of Business, Engineering and Science and Mathematics. At least three courses must be taken in the same general area. Also, COSAM courses at the 1000 level that are prerequisites for 2000 level COSAM courses would also generally satisfy the requirement, for example PHYS 1600-1610 and CHEM 1110-1120.