

Applied Mathematics Option (AMTH)

Freshman			
Fall	Hours	Spring	Hours
ENGL 1100 English Composition I		3 ENGL 1120 English Composition II	3
Core Humanities		3 Core Science ⁴	4
Core Social Science ²		3 Core History or Literature ¹	3
Core History		3 MATH 1620 Calculus II	4
MATH 1610 Calculus I		4 COMP 1200 Introduction to Computing for Engineers and Scientists	2
	16		16
Sophomore			
Fall	Hours	Spring	Hours
Core Literature		3 Core Social Science or Humanities ³	3
Core Science ⁴		4 MATH 2650 Linear Differential Equations	3
MATH 2630 Calculus III		4 MATH 3100 Introduction to Advanced Mathematics	3
MATH 2660 Topics in Linear Algebra		3 STAT 3600 Probability and Statistics I	3
Interdisciplinary Electives ⁵		3 Interdisciplinary Elective ⁵	3
	17		15
Junior			
Fall	Hours	Spring	Hours
Core Social Science ²		3 Core Fine Arts	3
MATH 5200 Analysis I		3 MATH 5210 Analysis II	3
MATH 5630 Introduction to Numerical Analysis I		3 MATH 5640 Introduction to Numerical Analysis II	3
Interdisciplinary Elective ⁵		3 Interdisciplinary Elective ⁵	3
Electives		4 Elective	4
	16		16
Senior			
Fall	Hours	Spring	Hours
MATH 5000 Math Modeling Continuous		3 Math Elective⁵	9
MATH 5670 Probability and Stochastic Processes I		3 Elective	3
Math Elective⁵		3 UNIV 4AA0 Creed to Succeed ⁶	0
Interdisciplinary Elective ⁵		3	
	12		12
Total Hours: 120			

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 Students who choose a HIST sequence other than HIST 1010 and HIST 1020 should talk to an advisor about CORE SOC SCI choices.

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3 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.

4 Core Science: One of the sequences PHYS 1600/PHYS 1610, BIOL 1020/BIOL 1030, CHEM 1030/CHEM 1040 with labs, or GEOL 1100/GEOL 1110.

5 For guidelines regarding Math Elective and Interdisciplinary Elective, see advisor.

6 This course must be taken the semester of graduation.