

Applied Mathematics — Applied Discrete Mathematics Option (APDM)

Freshman

Fall	Hours	Spring	Hours
ENGL 1100 English Composition I		3 ENGL 1120 English Composition II	3
Core Social Science ²		3 Core Science ⁴	4
Core History		3 Core History or Literature ¹	3
Core Humanities		3 COMP 1200 Introduction to Computing for Engineers and Scientists	2
MATH 1610 Calculus I		4 MATH 1620 Calculus II	4
	16		16

Sophomore

Fall	Hours	Spring	Hours
Core Literature		3 Core Social Science or Humanities ³	3
Core Science ⁴		4 COMP 3000 Object-Oriented Programming for Engineers and Scientists	3
COMP 2000 Network Programming with HTML and Java		3 MATH 3710 Discrete Mathematics	3
MATH 2660 Topics in Linear Algebra		3 MATH 2650 Linear Differential Equations	3
MATH 2630 Calculus III		4 STAT 3600 Probability and Statistics I	3
	17		15

Junior

Fall	Hours	Spring	Hours
Core Social Science ²		3 Core Fine Arts	3
MATH 5750 Introduction to Graph Theory		3 MATH 5330 Computational Algebra	3
MATH 5310 Introduction to Abstract Algebra I		3 Analysis Elective⁵	3
Elective		4 Elective	4
Interdisciplinary Elective ⁵		3 Interdisciplinary Elective ⁵	3
	16		16

Senior

Fall	Hours	Spring	Hours
Algebra/Linear Algebra Elective⁵		3 Discrete Math Elective⁵	3
Discrete Math Electives⁵		6 Math Elective⁵	6
Interdisciplinary Elective ⁵		3 Elective	3
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	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*.

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

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 Discrete Math electives, Math Electives, Applied Analysis Elective, Algebra/Linear Algebra Elective and Interdisciplinary Electives, see advisor.

6 This course must be taken the semester of graduation.