

Traditional Mathematics Track

This track is designed for the student that will go to graduate school to pursue a M.S. and/or Ph.D. in pure mathematics, applied mathematics, financial mathematics, or some other closely related area. This track is not recommended for students that intend to work in industry.

Freshman Year

FALL SEMESTER

Course	Name	Hours
ENC 1101	Freshman Communication Skills I	3
MAC 3211	Calculus I	4
AMH 2091	Introduction to African American History	3
	Humanities Core	3
ISC 1058	Scientists Life Skills	2
		15

SPRING SEMESTER

Course	Name	Hours
ENC 1102	Freshman Communication Skills II	3
COP 3014C	Programming in C Language	4
MAC 2312	Calculus II	4
SPC 2608	Public Speaking	3
	Humanities Elective	3
		17

* Must complete a one year sequence of: **General Biology** (BSC 1010/L, BSC 1011/L), **General Chemistry** (CHM 1045/L, CHM 1046/L), or **General Physics** (PHY 2048/L, PHY 2049/L).

** Approved Mathematical Sciences Electives: **MAP 4103** Mathematical Modeling (spring only), **MTG 4212** Modern Pure Geometry (fall only), **MAS 4203** Number Theory (fall only), **MAD 4203** Combinatorial Analysis (not offered regularly)

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Sophomore Year

FALL SEMESTER

Course	Name	Hours
MAC 2313	Calculus III	5
STA 3034	Mathematical Statistics (fall only)	3
MAS 3105	Linear Algebra	3
	Approved Sciences Sequence*	4
		15

SPRING SEMESTER

Course	Name	Hours
MHF 4202	Foundations of Mathematics (spring only)	3
MAP 2302	Differential Equations	3
	Approved Sciences Sequence*	4
	Social Science Core	3
	Elective	3
		16

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Junior Year

FALL SEMESTER

Course	Name	Hours
MAD 3401	Numerical Analysis (fall only)	3
MAA 4937	Senior Seminar (fall only)	3
	Social Science Elective	3
	Electives	6
		15

SPRING SEMESTER

Course	Name	Hours
MAS 4301	Abstract Algebra I (spring only)	3
MAA 4402	Complex Variables (spring only)	3
MTG 4302	Topology (spring only)	3
	Electives	6
		15

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Senior Year

FALL SEMESTER

Course	Name	Hours
MAA 4211	Advanced Calculus I (fall only)	3
	Traditional Mathematics Elective**	3
	Electives	6
		12

SPRING SEMESTER

Course	Name	Hours
MAA 4211	Advanced Calculus II (spring only)	3
	Traditional Mathematics Elective**	3
	Electives	9
		15

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** Approved Mathematical Sciences Electives: **MAP 4103** Mathematical Modeling (spring only), **MTG 4212** Modern Pure Geometry (fall only), **MAS 4203** Number Theory (fall only), **MAD 4203** Combinatorial Analysis (not offered regularly)