

BACHELOR of ARTS

MATHEMATICS



THOMAS MORE
UNIVERSITY

2021 – 2022 Sample Curriculum (Odd-Year Start)

The mission of the Mathematics Department is to prepare students from any background for graduate studies, teaching, or for application of the principles of mathematics to business, industry or academia by providing focused, high quality instruction in classes emphasizing foundations in calculus, statistics, algebra and discrete mathematics.

First Year

Fall	CR	Spring	CR
FYE 150 First-Year Exploration	1	MAT 152 Calculus and Analytical Geometry	4
MAT 151 Calculus and Analytical Geometry	4	MAT 231 Foundations of Mathematics	3
PHY 141 General Physics I	4	PHY 142 General Physics II	4
PHY 141L General Physics I Lab	1	PHY 142L General Physics II Lab (recommended)	1
History Core	3	History Core	3
Subtotal		Subtotal	
13		15	

Second Year

Fall	CR	Spring	CR
MAT 201 Calculus and Analytic Geometry III	4	MAT 202 Differential Equations	4
MAT 320 Linear Algebra	3	(MATH Elective, Numbered ≥ 206 , but $\neq 205,208$)	3
CIS 113 Computer Applications and Hardware	3	Theology – Sacred Scripture Core	3
CIS 114 Intro to Programming	4	English above 210	3
ENG 150 Literature, Writing and Research	3	COM 105 Fundamentals of Public Speaking	3
Subtotal		Subtotal	
17		16	

Third Year

Fall	CR	Spring	CR
MAT 306 Abstract Algebra I	3	MAT 406* Abstract Algebra II (or MATH Elective)	3
MAT 340 Probability and Statistics for Scientists and Engineers	3	Free Elective	3
Foreign Language Core	3	Foreign Language Core	3
CHE 111 General Chemistry I	3	Social Science Core	3
Fine Arts Core	3	Theology – Systematic Core	3
Subtotal		Subtotal	
15		15	

Fourth Year

Fall	CR	Spring	CR
MAT 411 Advanced Calculus I	3	MAT 421* Advanced Calculus II (or MATH Elective)	3
Social Science Core	3	MAT 405 Mathematics Senior Seminar	3
Fine Arts Core	3	THE 425 Social Issues	3
Philosophy Core	3	Philosophy Core	3
Free Elective	3	Free Elective	3
Subtotal		Subtotal	
15		15	

Total Credits: 121

NOTE: Students must earn a C or better (C- is insufficient) in all courses and prerequisites within the major to graduate.

* Math majors are required to take *either* MAT 406 or MAT 421. You may, of course, take both.

BACHELOR of ARTS

MATHEMATICS



THOMAS MORE
UNIVERSITY

2021 – 2022 Sample Curriculum (Even-Year Start)

The mission of the Mathematics Department is to prepare students from any background for graduate studies, teaching, or for application of the principles of mathematics to business, industry or academia by providing focused, high quality instruction in classes emphasizing foundations in calculus, statistics, algebra and discrete mathematics.

First Year

Fall	CR	Spring	CR
FYE 150 First-Year Exploration	1	MAT 152 Calculus and Analytical Geometry	4
MAT 151 Calculus and Analytical Geometry	4	MAT 231 Foundations of Mathematics	3
PHY 141 General Physics I	4	PHY 142 General Physics II	4
PHY 141L General Physics I Lab	1	PHY 142L General Physics II Lab (recommended)	1
History Core	3	History Core	3
Subtotal		Subtotal	
13		15	

Second Year

Fall	CR	Spring	CR
MAT 201 Calculus and Analytic Geometry III	4	MAT 202 Differential Equations	4
MAT 320 Linear Algebra	3	(MATH Elective, Numbered ≥ 206 , but $\neq 205,208$)	3
CIS 113 Computer Applications and Hardware	3	Theology – Sacred Scripture Core	3
CIS 114 Intro to Programming	4	English above 210 Core	3
ENG 150 Literature, Writing and Research	3	COM 105 Fundamentals of Public Speaking	3
Subtotal		Subtotal	
17		16	

Third Year

Fall	CR	Spring	CR
MAT 411 Advanced Calculus I	3	MAT 421* Advanced Calculus II (or MATH Elective)	3
MAT 340 Probability and Statistics for Scientists and Engineers	3	Free Elective	3
Foreign Language Core	3	Foreign Language Core	3
CHE 111 General Chemistry I	3	Social Science Core	3
Fine Arts Core	3	Theology - Systematic Core	3
Subtotal		Subtotal	
15		15	

Fourth Year

Fall	CR	Spring	CR
MAT 306 Abstract Algebra I	3	MAT 406* Abstract Algebra II (or MATH Elective)	3
Social Science Core	3	MAT 405 Mathematics Senior Seminar	3
Fine Arts Core	3	THE 425 Social Issues	3
Philosophy Core	3	Philosophy Core	3
Free Elective	3	Free Elective	3
Subtotal		Subtotal	
15		15	

Total Credits: 121

NOTE: Students must earn a C or better (C- is insufficient) in all courses and prerequisites within the major to graduate.

* Math majors are required to take *either* MAT 406 or MAT 421. You may, of course, take both.