

# BACHELOR of ARTS (ODD-YEAR START)

## MATHEMATICS



THOMAS MORE  
UNIVERSITY

### Approved Sample Curriculum

The aim of the mathematics curriculum is to prepare the student for graduate studies, teaching, and/or for application of the principles of mathematics in business and industry.

#### First Year

Fall	CR	Spring	CR
FYE150 First-Year Exploration	1	<b>MAT152 Calculus and Analytical Geometry II</b>	4
<b>MAT151 Calculus and Analytical Geometry I</b>	4	CIS 255 Programming in PYTHON	3
PHY141 General Physics I*	4	PHY142 General Physics II*	4
PHY141L General Physics I Lab*	1	PHY142L General Physics II Lab (recommended)*	1
CIS 114 Intro to Programming	3	Social Science Core	3
Outer Core or Free Elective	3		
<b>Subtotal</b>			<b>15</b>

#### Second Year

Fall	CR	Spring	CR
<b>MAT201 Calculus and Analytic Geometry III</b>	4	<b>MAT202 Differential Equations</b>	4
<b>MAT320 Linear Algebra</b>	3	<b>MAT 231 Foundations of Mathematics</b>	3
ENG 150 Literature, Writing, and Research	3	History Core	3
Foreign Language	3	Theology Core	3
Outer Core or Free Elective	3	ENG 200+ Core	3
<b>Subtotal</b>			<b>16</b>

#### Third Year

Fall	CR	Spring	CR
<b>MAT340 Probability</b>	3	<b>MAT405 Special Topics in Mathematics</b>	3
<b>MATH ELECTIVE</b>	3	<b>MATH ELECTIVE</b>	3
COM 105 Foundations of Public Speaking	3	Theology Core	3
Philosophy Lab	1	Outer Core or Free Elective	3
Fine Arts Core	3	Outer Core or Free Elective	3
Outer Core or Free Elective	3		
<b>Subtotal</b>			<b>15</b>

#### Fourth Year

Fall	CR	Spring	CR
<b>MAT306 Abstract Algebra</b>	3	<b>MAT411 Advanced Calculus</b>	3
<b>MAT 498 Mathematics Senior Research I</b>	2	<b>MAT499 Mathematics Senior Research II</b>	1
Outer Core or Free Elective	3	Outer Core or Free Elective	3
Philosophy Core	3	Outer Core or Free Elective	3
Outer Core or Free Elective	3	Outer Core or Free Elective	3
<b>Subtotal</b>			<b>13</b>

**Total Credits: 121**

\*Mathematics majors may also take General Chemistry (CHE 111 and CHE 113 with labs) instead of General Physics I and II

Last Updated: Fall 2023

# BACHELOR of ARTS (EVEN-YEAR START) MATHEMATICS



THOMAS MORE  
UNIVERSITY

## Approved Sample Curriculum

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### First Year

Fall	CR	Spring	CR
FYE150 First-Year Exploration	1	<b>MAT152 Calculus and Analytical Geometry II</b>	4
<b>MAT151 Calculus and Analytical Geometry I</b>	4	<b>MAT231 Foundations of Mathematics</b>	3
PHY141 General Physics I*	4	PHY142 General Physics II*	4
PHY141L General Physics I Lab*	1	PHY142L General Physics II Lab (recommended)*	1
ENG 150 Literature, Writing, and Research	3	Social Science Core	3
Outer Core or Free Elective	3		
<b>Subtotal</b>		<b>Subtotal</b>	
16		15	

### Second Year

Fall	CR	Spring	CR
<b>MAT201 Calculus and Analytic Geometry III</b>	4	<b>MAT202 Differential Equations</b>	4
<b>MAT320 Linear Algebra</b>	3	<b>CIS 255 Programming in PYTHON</b>	3
<b>CIS114 Intro to Programming</b>	3	History Core	3
Foreign Language	3	Theology Core	3
Outer Core or Free Elective	3	ENG 200+ Core	3
<b>Subtotal</b>		<b>Subtotal</b>	
16		16	

### Third Year

Fall	CR	Spring	CR
<b>MAT306 Abstract Algebra</b>	3	<b>MAT411 Advanced Calculus</b>	3
<b>MATH ELECTIVE</b>	3	<b>MATH ELECTIVE</b>	3
COM 105 Foundations of Public Speaking	3	Theology Core	3
Philosophy Lab	1	Outer Core or Free Elective	3
Fine Arts Core	3	Outer Core or Free Elective	3
Outer Core or Free Elective	3		
<b>Subtotal</b>		<b>Subtotal</b>	
16		15	

### Fourth Year

Fall	CR	Spring	CR
<b>MAT340 Probability</b>	3	<b>MAT405 Special Topics in Mathematics</b>	3
<b>MAT 498 Mathematics Senior Research I</b>	2	<b>MAT499 Mathematics Senior Research II</b>	1
Philosophy Core	3	Outer Core or Free Elective	3
Outer Core or Free Elective	3	Outer Core or Free Elective	3
Outer Core or Free Elective	3	Outer Core or Free Elective	3
<b>Subtotal</b>		<b>Subtotal</b>	
14		13	

**Total Credits: 121**

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