DEGREE: BACHELOR of SCIENCE (ODD-YEAR START)
MAJOR: MATHEMATICS

THOMAS MORE UNIVERSITY

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 Seminar	1	**MAT152 Calculus and Analytical Geometry**	4
MAT151 Calculus and Analytical Geometry	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	3
ELECTIVE	3		
Subtotal	16	**Subtotal**	15

Second Year

Fall	CR	Spring	CR
MAT201 Calculus and Analytic Geometry III	4	**MAT202 Differential Equations**	4
MAT320 Linear Algebra	3	**MAT 231 Foundations of Mathematics**	3
ENG 150	3	HISTORY	3
LANGUAGE/CULTURE	3	THEOLOGY	3
ELECTIVE	3	ENGLISH	3
Subtotal	16	**Subtotal**	16

Third Year

Fall	CR	Spring	CR
MAT340 Probability	3	**MAT405 Special Topics in Mathematics**	3
MATH ELECTIVE	3	**MATH ELECTIVE**	3
COMMUNICATIONS	3	THEOLOGY	3
PHILOSOPHY	1	OUTER CORE SEQUENCE 1	3
FINE ART	3	ELECTIVE	3
ELECTIVE	3		
Subtotal	16	**Subtotal**	15

Fourth Year

Fall	CR	Spring	CR
MAT306 Abstract Algebra	3	**MAT411 Advanced Calculus**	3
MAT 498 Mathematics Senior Research I	2	**MAT499 Mathematics Senior Research II**	1
OUTER CORE SEQUENCE 2	3	OUTER CORE SEQUENCE 3	3
PHILOSOPHY	3	LITERATURE	3
ELECTIVE or SCIENCE** (if needed to reach 60+ hours)	3	ELECTIVE or SCIENCE** (if needed to reach 60+ hours)	3
Subtotal	14	**Subtotal**	13

Total Credits: 121

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

** To earn a B.S. in Mathematics, students must earn 60+ hours in the following areas: Mathematics, Physics, Chemistry, Biology, CIS (beyond 113), or Exercise Science

DEGREE: BACHELOR of SCIENCE (EVEN-YEAR START)
MAJOR: MATHEMATICS

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 Seminar	1	**MAT152 Calculus and Analytical Geometry**	4
MAT151 Calculus and Analytical Geometry	4	**MAT231 Foundations of Mathematics**	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	3	SOCIAL SCIENCE	3
ELECTIVE	3		
Subtotal	16	Subtotal	15

Second Year

Fall	CR	Spring	CR
MAT201 Calculus and Analytic Geometry III	4	**MAT202 Differential Equations**	4
MAT320 Linear Algebra	3	**CIS 255 Programming in PYTHON**	3
CIS114 Intro to Programming	3	HISTORY	3
LANGUAGE/CULTURE	3	THEOLOGY	3
ELECTIVE	3	ENGLISH	3
Subtotal	16	Subtotal	16

Third Year

Fall	CR	Spring	CR
MAT306 Abstract Algebra	3	**MAT411 Advanced Calculus**	3
MATH ELECTIVE	3	**MATH ELECTIVE**	3
COMMUNICATIONS	3	THEOLOGY	3
PHILOSOPHY	1	OUTER CORE SEQUENCE 1	3
FINE ART	3	ELECTIVE	3
ELECTIVE	3		
Subtotal	16	Subtotal	15

Fourth Year

Fall	CR	Spring	CR
MAT340 Probability	3	**MAT405 Special Topics in Mathematics**	3
MAT 498 Mathematics Senior Research I	2	**MAT499 Mathematics Senior Research II**	1
PHILOSOPHY	3	LITERATURE	3
OUTER CORE SEQUENCE 2	3	OUTER CORE SEQUENCE 3	3
ELECTIVE or SCIENCE** (if needed to reach 60+ hours)	3	ELECTIVE or SCIENCE** (if needed to reach 60+ hours)	3
Subtotal	14	Subtotal	13

Total Credits: 121

*Mathematics majors may also take General Chemistry (CHE 111 and CHE 113 with labs) instead of General Physics I and II
** To earn a B.S. in Mathematics, students must earn 60+ hours in the following areas: Mathematics, Physics, Chemistry, Biology, CIS (beyond 113), or Exercise Science