

BACHELOR OF ARTS

BIOLOGY



THOMAS MORE
UNIVERSITY

2020-21 Sample Curriculum (for students who achieved an ACT Composite score of 21 and below)*

The curriculum in Biology, formulated according to both classical and contemporary biological concepts, prepares the student for continuing intellectual growth and professional development in the life sciences. The major program in Biology meets the requirements for most graduate programs in biology and the requirements for dental, medical, veterinary, and other medically related programs. Students interested in pursuing any of these medically related programs should consult the appropriate advisor, as those programs have specific course requirements for admittance.

*Exception: Students with ACT Composite score ≤ 21 , but have Science, Math, and Reading sub scores ≥ 22 and English sub score ≥ 19 may alter the schedule below and begin BIO 101 their first year at the discretion of the Department of Biological Sciences.

First Year

Fall	CR	Spring	CR
FYE 150 First-Year Experience	1	BIO100 Introduction to Biology	3
ENG150 Literature, Writing and Research	3	CHE101 Introduction to Chemistry	3
CIS111 Introduction to Computer Information Systems	3	Social Science Core	3
History Core	3	History Core	3
GEC096 Beginning Algebra (if needed) OR Social Science	3	Fine Arts Core	3
Subtotal		Subtotal	
13		15	

Second Year

Fall	CR	Spring	CR
BIO101/101L General Biology I	4	BIO102/102L General Biology II	4
CHE111/111L General Chemistry I	4	CHE113/113L General Chemistry II	4
MAT115 Pre-calculus (if taking Physics later) OR Elective	3	ENG 200+ Core	3
Theology—Sacred Scripture Core	3	Social Science Core	3
Subtotal		Subtotal	
14		14	

Third Year

Fall	CR	Spring	CR
BIO205 Biological Literature	3	COM105 Fundamentals of Speech	3
BIO204 Evolution Seminar	3	BIO206/206L Genetics	4
CHE220/220L Organic Chemistry I OR PHY 121/121L Elements of Physics I**	4	CHE240/240L Organic Chemistry I OR PHY 122/122L Elements of Physics II**	4
Foreign Language Core	3	Foreign Language Core	3
Fine Arts Core	3		
Subtotal		Subtotal	
17		14	

Fourth Year

Fall	CR	Spring	CR
BIO3XX Biology Elective	4	BIO489 Biology Seminar	3
BIO3XX Biology Elective	4	BIO3XX Biology Elective	4
Philosophy Core	3	BIO3XX Biology Elective	4
MAT205 Introductory Statistics	3	THE425 Social Issues	3
Theology – Systematic Core	3	Philosophy Core	3
Subtotal		Subtotal	
17		17	

Total Credits: 121

** Students must complete 8 hours of Organic Chemistry and/or Physics. Physics requires MAT115 or higher.

Please note: No one earning a BA or BS in Biology may graduate with more than one letter grade lower than a “C” in a Biology (BIO) course that is required for the major. (i.e., a student may earn *one* BIO course grade that is either a “C minus”, “D plus”, “D”, or “D minus”)

BACHELOR OF ARTS BIOLOGY



THOMAS MORE
UNIVERSITY

2021-22 Sample Curriculum (for students who achieved an ACT Composite score of 22-23)

The curriculum in Biology, formulated according to both classical and contemporary biological concepts, prepares the student for continuing intellectual growth and professional development in the life sciences. The major program in Biology meets the requirements for most graduate programs in biology and the requirements for dental, medical, veterinary, and other medically related programs. Students interested in pursuing any of these medically related programs should consult the appropriate advisor, as those programs have specific course requirements for admittance.

First Year

Fall	CR	Spring	CR
FYE150 First Year Experience	1	BIO102/102L General Biology II	4
BIO101/101L General Biology I	4	CHE101 Introduction to Chemistry	3
History Core	3	ENG150 Literature, Writing and Research	3
CIS111 Introduction to Computer Information Systems	3	History Core	3
COM105 Fundamentals of Speech	3	Social Science Core	3
Subtotal			Subtotal
14			16

Second Year

Fall	CR	Spring	CR
BIO205 Biological Literature	3	ENG200+ Core	3
BIO204 Evolution Seminar	3	BIO206/206L Genetics	4
CHE111/111L General Chemistry I	4	CHE113/113L General Chemistry II	4
MAT115 Pre-calculus (if taking Physics later) OR Elective	3	MAT205 Introductory Statistics	3
Foreign Language Core	3	Foreign Language Core	3
Subtotal			Subtotal
16			17

Third Year

Fall	CR	Spring	CR
BIO3XX Biology Elective	4	BIO3XX Biology Elective	4
CHE220/220L Organic Chemistry OR PHY 121/121L Elements of Physics I*	4	CHE240/240L Organic Chemistry I OR PHY 122/122L Elements of Physics II*	4
Philosophy Core	3	Philosophy Core	3
Social Science Core	3	Fine Arts Core	3
Fine Arts Core	3	Theology – Systematic Core	3
Subtotal			Subtotal
17			17

Fourth Year

Fall	CR	Spring	CR
BIO3XX Biology Elective	4	THE425 Social Issues	3
Theology – Sacred Scripture Core	3	BIO3XX Biology Elective	4
Elective or Concentration Course	3-4	BIO489 Biology Seminar	3
Elective	3	Elective or Concentration Course	3-4
Subtotal			Subtotal
14-15			13-14

Total Credits: 124-126

*Students must complete 8 hours of Organic Chemistry and/or Physics. Physics requires MAT115 or higher.

Please note: No one earning a BA or BS in Biology may graduate with more than one letter grade lower than a “C” in a Biology (BIO) course that is required for the major. (i.e., a student may earn *one* BIO course grade that is either a “C minus”, “D plus”, “D”, or “D minus”)

BACHELOR OF ARTS BIOLOGY



THOMAS MORE
UNIVERSITY

2021-22 Sample Curriculum (for students who achieved an ACT Composite score of 24 and above)

The curriculum in Biology, formulated according to both classical and contemporary biological concepts, prepares the student for continuing intellectual growth and professional development in the life sciences. The major program in Biology meets the requirements for most graduate programs in biology and the requirements for dental, medical, veterinary, and other medically related programs. Students interested in pursuing any of these medically related programs should consult the appropriate advisor, as those programs have specific course requirements for admittance.

First Year

Fall	CR	Spring	CR
FYE150 First Year Experience	1	ENG150 Literature, Writing and Research	3
BIO101/101L General Biology I	4	BIO102/102L General Biology II	4
CHE111/111L General Chemistry I	4	CHE113/113L General Chemistry II	4
History Core	3	History Core	3
CIS111 Introduction to Computer Info Systems	3	MAT115 Pre-calculus (if taking Physics later) OR Elective	3
Subtotal			Subtotal
15			17

Second Year

Fall	CR	Spring	CR
COM105 Fundamentals of Speech	3	ENG200+ Core	3
BIO204 Evolution Seminar	4	BIO206/206L Genetics	4
CHE220/220L Organic Chemistry I OR PHY121/121L Elements of Physics I *	4	CHE240/240L Organic Chemistry II OR PHY122/122L Elements of Physics II	4
BIO205 Biological Literature	3	MAT205 Introductory Statistics	3
Social Science Core	3	Social Science Core	3
Subtotal			Subtotal
17			17

Third Year

Fall	CR	Spring	CR
BIO3XX Biology Elective	4	BIO3XX Biology Elective	4
Foreign Language Core	3	Foreign Language Core	3
Theology – Sacred Scripture Core	3	Theology – Systematic Core	3
Fine Arts Core	3	Philosophy Core	3
Elective or Concentration Course	3-4	Elective or Concentration Course	3-4
Subtotal			Subtotal
16 - 17			16 - 17

Fourth Year

Fall	CR	Spring	CR
BIO3XX Biology Elective	4	THE425 Social Issues	3
Philosophy Core	3	BIO489 Biology Seminar	3
Elective	3	BIO3XX Biology Elective	4
Fine Arts Core	3	Elective or Concentration Course	3-4
Elective or Concentration Course	3-4		
Subtotal			Subtotal
16 - 17			13 - 14

Total Credits: 127 - 131

*Students must complete 8 hours of Organic Chemistry and/or Physics. Physics requires MAT115 or higher.

Please note: No one earning a BA or BS in Biology may graduate with more than one letter grade lower than a “C” in a Biology (BIO) course that is required for the major. (i.e., a student may earn *one* BIO course grade that is either a “C minus”, “D plus”, “D”, or “D minus”)

BACHELOR OF ARTS

BIOLOGY / MARINE BIOLOGY TRACK



THOMAS MORE
UNIVERSITY

2021-22 Sample Curriculum (for students who achieved an ACT Composite score of 24 and above)

The curriculum in Biology, formulated according to both classical and contemporary biological concepts, prepares the student for continuing intellectual growth and professional development in the life sciences. **The Marine Biology track is a course of study within the Biology BA (or BS) degree/major.** All of the requirements for a Biology major are in effect. This track requires two additional courses: Marine Biology and Marine Biology Practicum. Beyond the formal requirements, students will be advised to select upper division electives most closely related to the field of Marine Biology.

The Marine Biology track within the Biology major meets the requirements for most graduate programs in biology and the requirements for related professional programs. Students interested in pursuing a marine biology program should consult the appropriate advisor.

First Year

Fall	CR	Spring	CR
FYE150 First Year Experience	1	ENG150 Literature, Writing and Research	3
BIO101/101L General Biology I	4	BIO102/102L General Biology II	4
CHE111/111L General Chemistry I	4	CHE113/113L General Chemistry II	4
History Core	3	History Core	3
CIS111 Introduction to Computer Info Systems	3	MAT115 Pre-calculus (if taking Physics later) OR Elective	3
Subtotal	15	Subtotal	17

Second Year

Fall	CR	Spring	CR
COM105 Fundamentals of Speech	3	Social Science Core	3
BIO204 Evolution Seminar	3	BIO206/206L Genetics	4
CHE220/220L Organic Chemistry I OR PHY121/121L Elements of Physics I *	4	CHE240/240L Organic Chemistry II OR PHY122/122L Elements of Physics II	4
BIO205 Biological Literature	3	MAT205 Introductory Statistics	3
Social Science Core	3	Philosophy Core	3
Subtotal	16	Subtotal	17

Third Year

Fall	CR	Spring	CR
BIO3XX Biology Elective	4	BIO3XX Biology Elective #	4
Foreign Language Core	4	Foreign Language Core	3
Fine Arts Core	3	Theology – Systematic Core	3
ENG200+ Core	3	Philosophy Core	3
Elective or Concentration Course	3-4	Elective or Concentration Course	3-4
Subtotal	16 - 17	Subtotal	16 - 17

Fourth Year

Fall	CR	Spring	CR
BIO3XX Biology Elective	4	THE425 Social Issues	3
BIO400 Marine Biology Practicum OR BIO495 Biology Internship	3	BIO3XX Biology Elective #	4
Fine Arts Core	3	BIO489 Biology Seminar	3
Elective or Concentration Course	3-4	Elective or Concentration Course	3-4
Theology – Sacred Scripture Core	3		
Subtotal	16 - 17	Subtotal	13 - 14

Total Credits: 126 - 130

* Students must complete 8 hours of Organic Chemistry and/or Physics. Physics requires MAT115 or higher.

BIO311 (Marine Biology) must be taken when offered, every other year (Spring semester).

Please note: No one earning a BA or BS in Biology may graduate with more than one letter grade lower than a “C” in a Biology (BIO) course that is required for the major. (i.e., a student may earn *one* BIO course grade that is either a “C minus”, “D plus”, “D”, or “D minus”)

BACHELOR OF SCIENCE BIOLOGY



THOMAS MORE
UNIVERSITY

2021-22 Sample Curriculum (for students who achieved an ACT Composite score of 24 and above)

The curriculum in Biology, formulated according to both classical and contemporary biological concepts, prepares the student for continuing intellectual growth and professional development in the life sciences. The major program in Biology meets the requirements for most graduate programs in biology and the requirements for dental, medical, veterinary, and other medically related programs. Students interested in pursuing any of these medically related programs should consult the appropriate advisors for those pathways.

First Year

Fall	CR	Spring	CR
FYE150 First Year Experience	1	ENG150 Literature, Writing and Research	3
BIO101/101L General Biology I	4	BIO102/102L General Biology II	4
CHE111/111L General Chemistry I	4	CHE113/113L General Chemistry II	4
History Core	3	Social Science Core	3
CIS 111 Introduction to Computer Info Systems	3	MAT115 Precalculus** OR MAT143 Elements of Calculus*	3-4
Subtotal	15	Subtotal	17 - 18

Second Year

Fall	CR	Spring	CR
COM105 Fundamentals of Speech	3	History Core	3
BIO204 Evolution Seminar	3	BIO206/206L Genetics	4
CHE220/220L Organic Chemistry I	4	CHE240/240L Organic Chemistry II	4
MAT143 Elements of Calculus* OR Elective	3-4	MAT205 Introductory Statistics	3
BIO205 Biological Literature	3	Social Science Core	3
Subtotal	16 - 17	Subtotal	17

Third Year

Fall	CR	Spring	CR
BIO3XX Biology Elective	4	BIO3XX Biology Elective	4
PHY121/121L Elements of Physics I	4	PHY122/122L Elements of Physics II	4
Foreign Language Core	3	Foreign Language Core	3
ENG200+ Core	3	Theology – Systematic Core	3
Fine Arts Core	3	Philosophy Core	3
Subtotal	17	Subtotal	17

Fourth Year

Fall	CR	Spring	CR
BIO3XX Biology Elective	4	BIO3XX Biology Elective	4
Philosophy Core	3	THE425 Social Issues	3
Elective or Concentration Course	3-4	BIO489 Senior Seminar	3
Fine Arts Core	3	Elective or Concentration Course	3-4
Theology – Sacred Scripture Core	3		
Subtotal	16 - 17	Subtotal	13 - 14

Total Credits: 128 - 132

* Students with an ACT composite below 24 must take MAT 115 the fall semester. Students with an ACT composite above 24 may take MAT 115 if they choose or begin with MAT 143 in the fall or spring semester. It is highly recommended that students take MAT143 in their first year. If fewer credit hours are to be taken, students should postpone taking HIS101 and/or ENG150.

** Required for students with ACT composite of below 24, optional for students with ACT composite above 24

Please note: No one earning a BA or BS in Biology may graduate with more than one letter grade lower than a “C” in a Biology (BIO) course that is required for the major. (i.e., a student may earn *one* BIO course grade that is either a “C minus”, “D plus”, “D”, or “D minus”)

BACHELOR OF SCIENCE

BIOLOGY / MARINE BIOLOGY TRACK



THOMAS MORE
UNIVERSITY

2021-22 Sample Curriculum (for students who achieved an ACT Composite score of 24 and above)

The curriculum in Biology, formulated according to both classical and contemporary biological concepts, prepares the student for continuing intellectual growth and professional development in the life sciences. The Marine Biology track is a course of study within the Biology major. All of the requirements for a Biology major are in effect. This track requires two additional courses: Marine Biology and Marine Biology Practicum. Beyond the formal requirements, students will be advised to select upper division electives most closely related to the field of Marine Biology.

The **Marine Biology track within the Biology BS major** meets the requirements for most graduate programs in biology and the requirements for related professional programs. Students interested in pursuing a marine biology program should consult the appropriate advisor.

First Year

Fall	CR	Spring	CR
FYE First Year Experience	1	ENG150 Literature, Writing and Research	3
BIO101/101L General Biology I	4	BIO102/102L General Biology II	4
CHE111/111L General Chemistry I	4	CHE113/113L General Chemistry II	4
History Core	3	Social Science Core	3
CIS 111 Introduction to Computer Info Systems	3	MAT115 Precalculus** OR MAT143 Elements of Calculus*	3-4
Subtotal	15	Subtotal	17 - 18

Second Year

Fall	CR	Spring	CR
COM105 Fundamentals of Speech	3	History Core	3
BIO204 Evolution Seminar	3	BIO206/206L Genetics	4
CHE220/220L Organic Chemistry I	4	CHE240/240L Organic Chemistry II	4
MAT143 Elements of Calculus* OR Elective	3-4	MAT205 Introductory Statistics	3
BIO205 Biological Literature	3	Social Science Core	3
Subtotal	16 - 17	Subtotal	17

Third Year

Fall	CR	Spring	CR
BIO3XX Biology Elective	4	BIO3XX Biology Elective #	4
PHY121/121L Elements of Physics I	4	PHY122/122L Elements of Physics II	4
Foreign Language Core	3	Foreign Language Core	3
ENG200+ Core	3	Theology – Systematic Core	3
Fine Arts Core	3	Philosophy Core	3
Subtotal	17	Subtotal	17

Fourth Year

Fall	CR	Spring	CR
BIO3XX Biology Elective	4	BIO3XX Biology Elective #	4
BIO400 Marine Biology Practicum OR BIO495 Biology Internship	3	THE425 Social Issues	3
Elective or Concentration Course	3-4	BIO489 Senior Seminar	3
Fine Arts Core	3	Elective or Concentration Course	3-4
Theology – Sacred Scripture Core	3		
Subtotal	16 - 17	Subtotal	13 - 14

Total Credits: 128 - 132

* Students with an ACT composite below 24 must take MAT 115 the fall semester. Students with an ACT composite above 24 may take MAT 115 if they choose or begin with MAT 143 in the fall or spring semester. It is highly recommended that students take MAT143 in their first year. If fewer credit hours are to be taken, students should postpone taking HIS101 and/or ENG150.

** Required for students with ACT composite of below 24; optional for students with ACT composite above 24.

BIO311 (Marine Biology) must be taken when offered, every other year (Spring semester).

Please note: No one earning a BA or BS in Biology may graduate with more than one letter grade lower than a “C” in a Biology (BIO) course that is required for the major. (i.e., a student may earn *one* BIO course grade that is either a “C minus”, “D plus”, “D”, or “D minus”)

BACHELOR OF SCIENCE

BIOLOGY / PRE-MED TRACK



THOMAS MORE
UNIVERSITY

2021-22 Sample Curriculum (for students who achieved an ACT Composite score of 24 and above)

The curriculum in Biology, formulated according to both classical and contemporary biological concepts, prepares the student for continuing intellectual growth and professional development in the life sciences. The major program in Biology meets the requirements for most graduate programs in biology and the requirements for dental, medical, veterinary, and other medically related programs. Students interested in pursuing any of these medically related programs should consult the pre-medical advisor.

First Year

Fall	CR	Spring	CR
FYE First Year Experience	1	ENG150 Literature, Writing and Research	3
BIO101/101L General Biology I	4	BIO102/102L General Biology II	4
CHE111/111L General Chemistry I	4	CHE113/113L General Chemistry II	4
CIS111 Introduction to Computer Info Systems	3	History Core	3
History Core	3	MAT115 Pre-calculus* OR MAT143 Elements of Calculus**	3-4
Subtotal		Subtotal	
15		17 - 18	

Second Year

Fall	CR	Spring	CR
BIO211/211L Anatomy and Physiology I	4	BIO212/212L Anatomy and Physiology II	4
BIO204 Evolution Seminar	3	BIO206/206L Genetics	4
CHE220/220L Organic Chemistry I	4	CHE240/240L Organic Chemistry II	4
BIO205 Biological Literature	3	PSY105 General Psychology	3
MAT143 Elements of Calculus** OR Elective	3-4		
Subtotal		Subtotal	
17 - 18		15	

Third Year

Fall	CR	Spring	CR
BIO3XX Biology Elective (<i>Molecular Genetics when available</i>)	4	BIO330 Biochemistry ***	3-4
PHY121/121L Elements of Physics I	4	PHY122/122L Elements of Physics II	4
Foreign Language Core	3	Foreign Language Core	3
MAT205 Introductory Statistics	3	Theology – Systematic Core	3
SOC105 Principles of Sociology	3	Philosophy Core (Medical Ethics when available)	3
Subtotal		Subtotal	
17		16 - 17	

Fourth Year

Fall	CR	Spring	CR
BIO3XX Biology Elective	4	BIO3XX Biology Elective	4
Philosophy Core	3	THE425 Social Issues	3
Fine Arts Core	3	BIO489 Biology Seminar	3
Theology – Sacred Scripture Core	3	Fine Arts Core	3
COM105 Fundamentals of Speech	3	ENG200+ Core	3
Subtotal		Subtotal	
16		16	

Total Credits: 129 - 132

ITALICS: needed for the MCAT Exam (Medical College Admissions Test), which is taken after completion of the Third (Junior) Year

BOLD: needed for a BS Biology degree

* Required for students with ACT Composite of below 24, optional for students with ACT Composite above 24.

** Students with an ACT Composite below 24 must take MAT115 in the Fall semester. Students with an ACT Composite above 24 may take MAT115 if they choose or begin with MAT143 in the Fall or Spring semester. It is highly recommended that students take MAT143 in their first year.

*** If BIO330 Biochemistry is lecture only (3 credits), please discuss your options with your advisor.

Please note: No one earning a BA or BS in Biology may graduate with more than one letter grade lower than a “C” in a Biology (BIO) course that is required for the major. (i.e., a student may earn *one* BIO course grade that is either a “C minus”, “D plus”, “D”, or “D minus”)