



**Approved Sample Curriculum**

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 Veterinary and other medically-related programs. Students interested in pursuing any of these programs should consult the Pre-Veterinary advisor.

**First Year**

Fall	CR	Spring	CR
FYE150 First-Year Seminar	1	Social Science Core	3
<b>BIO101/101L General Biology I</b>	4	<b>BIO102/102L General Biology II</b>	4
<b>CHE111/111L General Chemistry I</b>	4	<b>CHE113/113L General Chemistry II</b>	4
ENG150 Literature and Writing	3	COM 105 Foundations of Public Speaking	3
CIS111 Introduction to Computer Info Systems	3	MAT115 Pre-calculus OR MAT143 Elements of Calculus*	3-4
<b>Subtotal</b>		15	<b>Subtotal</b> 17 - 18

**Second Year**

Fall	CR	Spring	CR
BIO 211/211L Anatomy & Physiology I	4	BIO 212/212L Anatomy & Physiology II	4
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 (ENG200+)	3-4	MAT205 Introductory Statistics	3
BIO205 Biological Literature	3		
<b>Subtotal</b>		16 - 17	<b>Subtotal</b> 15

**Third Year**

Fall	CR	Spring	CR
BIO3XX Elective (General Physiology** or Vertebrate Biology)	4	BIO330 Biochemistry ***	4
PHY121/121L Elements of Physics I	4	PHY122/122L Elements of Physics II	4
Theology Core	3	BIO305 Microbiology ***	4
Philosophy Core #1	3	History Core	3
Animal Nutrition ****	3		
<b>Subtotal</b>		17	<b>Subtotal</b> 15

**Fourth Year**

Fall	CR	Spring	CR
BIO3XX Elective (General Physiology** or Vertebrate Biology)	4	BIO319 Cell Biology ***	4
ENG200+ English Literature (if already taken, BIO 325 is recommended)	3	BIO489 Biology Seminar	3
Foreign Language Core	3	Theology Core	3
Fine Arts Core	3	Outer Core Elective (Minor, Second Major, or Outer core sequence)	3-4
Philosophy Core #2	1	Outer Core Elective (Minor, Second Major, or Outer core sequence)	3-4
Outer Core Elective (Minor, Second Major, or Outer core sequence)	3-4		
<b>Subtotal</b>		17-18	<b>Subtotal</b> 16-18

**Total Credits: 131 – 135**

\* Students with an ACT composite below 24 must take MAT 115. Students with an ACT composite > 24 may take MAT 115 if they choose or begin with MAT 143.

\*\* Recommended or required by some Veterinary Schools. Check with your desired school's pre-requisites (<https://www.aavmc.org/>). Sequence depends on the cycling schedule.

\*\*\* May be switched between junior and senior years depending on cycling schedule.

\*\*\*\* Animal Nutrition course not taught at Thomas More, can be taken online. Not needed for all vet schools. Check with your desired school's pre-requisites (<https://www.aavmc.org/>) or discuss with your advisor.

**Please note:** No student earning a BS in Biology may graduate with more than one "C-" in an Biology (BIO) course required for their major.

Updated: Spring 2024