



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

First Year

Fall	CR	Spring	CR	
FYE150 First-Year Seminar	1	History Core	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	ENG200+ English Literature	3	
ENG150 Literature, Writing and Research	3	MAT115 Pre-calculus OR MAT143 Elements of Calculus *	3-4	
Subtotal		15	Subtotal 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		17 - 18	Subtotal 15	

Third Year

Fall	CR	Spring	CR	
BIO3XX Biology Elective	4	BIO3XX Biology Elective (BIO 326/326L Immunology recommended)**	4	
PHY121/121L Elements of Physics I	4	PHY122/122L Elements of Physics II	4	
PSYXXX – additional Psychology (Lifespan Development, preferred)	3	BIO214 Exercise Physiology	3	
EXS250 Kinesiology	3	COM105 Foundations of Public Speaking	3	
Philosophy Core #1 – Ethics preferred	3	Outer Core Elective (Minor, Second Major, or Outer core sequence)	3	
Subtotal		17	Subtotal 17	

Fourth Year

Fall	CR	Spring	CR	
BIO3XX Biology Elective	4	BIO489 Biology Seminar	3	
MAT205 Statistics	3	Theology Core	3	
Foreign Language	3	Fine Arts Core	3	
Theology Core	3	Outer Core Elective (Minor, Second Major, or Outer core sequence)	3-4	
Outer Core Elective (Minor, Second Major, or Outer core sequence)	3-4	Philosophy Core #2	1	
		BIO207 Medical Terminology	2	
Subtotal		16-17	Subtotal 15-16	

Total Credits: 127 - 134

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

** BIO3XX elective selection discussed with Pre-PT advisor to assure meeting TMU and PT School requirements

TMU schedule may need to be modified to fulfill both TMU degree requirements and the PT school pre-requisites depending on the student's choice of Physical Therapy program. So, it is very important to meet with and discuss your PT program plans with your TMU PT advisor as early in your program as possible.

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

Updated: Spring 2024



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First Year

Fall	CR	Spring	CR
FYE150 First-Year Seminar	1	History Core	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	ENG200+ English Literature	3
ENG150 Literature, Writing and Research	3	MAT115 Pre-calculus (if needed) *	3
Subtotal		Subtotal	
15		17	

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
BIO205 Biological Literature	3	COM105 Foundations of Public Speaking	3
Foreign Language	3	Outer Core Elective (Minor, Second Major, or Outer core sequence)	3
PSY105 Psychology	3	BIO207 Medical Terminology	2
Subtotal		Subtotal	
16		16	

Third Year

Fall	CR	Spring	CR
EXS250 Kinesiology	3	BIO3XX Biology Elective (BIO 326/326L Immunology recommended)**	4
PHY121/121L Elements of Physics I	4	PHY122/122L Elements of Physics II	4
PSYXXX – additional Psychology (Lifespan Development, preferred)	3	BIO214 Exercise Physiology	3
Outer Core Elective (Minor, Second Major, or Outer core sequence)	3	Outer Core Elective (Minor, Second Major, or Outer core sequence)	3
MAT205 Statistics	3	Philosophy Core #1	1-3
Subtotal		Subtotal	
16		15-17	

Fourth Year

Fall	CR	Spring	CR
BIO3XX Biology Elective (“C” elective course) **	4	BIO3XX Biology Elective (BIO 326/326L Immunology recommended)**	4
Fine Arts Core	3	BIO489 Biology Seminar	3
Theology Core	3	Philosophy Core Core #2 – Ethics preferred	3
Outer Core Elective (Minor, Second Major, or Outer core sequence) OR Biology Concentration Course	3-4	Theology Core	3
Biology Concentration course	3-4		
Subtotal		Subtotal	
16-18		13	

ITALICS: needed for Physical Therapy graduate programs **BOLD**: needed for a BA in Biology degree

* Depending on student mathematical ability, MAT115 may or may not be needed. *MAT115 content is a requirement for PHY121/121L and PHY 122/122L.*

** BIO3XX elective selection discussed with Pre-PT advisor to assure meeting TMU and PT School requirements

TMU schedule may need to be modified to fulfill both TMU degree requirements and the PT school pre-requisites depending on the student’s choice of Physical Therapy program. So, it is very important to meet with and discuss your PT program plans with your TMU PT advisor as early in your program as possible.

Please note: No one earning a BA 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. (ie. a C- does not count)

Updated: Spring 2024