

Student Name: \_\_\_\_\_

Rev. 3/15/2022

Major Requirements (See back of this sheet)						
Course Prefix	Course Number	Major Requirements (Pre-Requisite)	Liberal Studies	Req. Hours	Semester & Term Taught	Earned Hours
BIOL	110	General Biology	NW	4	Fall & Spring	
BIOL	201	Biology Seminar (1 credit each; need 4 total)		4	Fall & Spring	
BIOL	221	Human Anatomy & Physiology I		3	Fall & Spring	
BIOL	222	Human Anatomy & Physiology II (BIOL 221)		3	Fall & Spring	
BIOL	226	General Microbiology (BIOL 110)	NW	4	Fall & Spring	
BIOL	310	Botany (BIOL 110)		4	Fall Odd	
BIOL	325	Invertebrate Zoology (BIOL 110)		4	Fall Even	
BIOL	330	Vertebrate Zoology (BIOL 110)		4	Spring Odd	
BIOL	350	Ecology (BIOL 110)		4	Spring Even	
BIOL	415	Genetics (BIOL 110)		4	Fall	
CHEM	123	General Chemistry I		4	Fall	
CHEM	124	General Chemistry II (CHEM 123)		4	Spring	
CHEM	300	Organic Chemistry I		4	Fall	
CHEM	310	Organic Lab Techniques		2	Fall	
MATH	120	College Algebra	QR	3	Fall & Spring	
<b>Total Major Hours:</b>				<b>55</b>		
DEGREE REQUIREMENTS						
<b>BACHELOR of SCIENCE:</b>						
Foundational & Liberal Studies (min. 36 hours)				<b>36</b>		
ELECTIVES:				<b>29</b>		
<b>TOTAL GRADUATION HOURS:</b>				<b>120</b>		

**SUGGESTED SEQUENCE**

Major: **BIOLOGY**

*Even Year Start*

FALL OF YEAR ONE			SPRING OF YEAR ONE		
INTD 105	Wesleyan Experience	2	BIOL 226	General Microbiology	4
INTD 115	Wesleyan Heritage	1	MATH 120	College Algebra	3
BIOL 110	General Biology	4	ENGL 121	Intermed. English Composition	3
BIOL 201	Biology Seminar (Fa or Sp)	1		Liberal Studies	6
ENGL 120	Intro. English Composition	3			
	Liberal Studies	3			
		Total			Total
		14			16

FALL OF YEAR TWO			SPRING OF YEAR TWO		
BIOL 221	Human Anatomy & Physiology I	3	BIOL 222	Human Anatomy & Phys. II	3
CHEM 123	General Chemistry I	4	CHEM 124	General Chemistry II	4
BIOL 201	Biology Seminar (Fa or Sp)	1		Liberal Studies	9
	Liberal Studies	7-8			
		Total			Total
		15-16			16

FALL OF YEAR THREE			SPRING OF YEAR THREE		
BIOL 325	Invertebrate Zoology	4	BIOL 330	Vertebrate Zoology	4
CHEM 300	Organic Chemistry I	4	BIOL 201	Biology Seminar* (Fa or Sp)	1
CHEM 310	Organic Lab Techniques	2		Liberal Studies/Electives	10-12
	Liberal Studies/Electives	4-6			
		Total			Total
		14-16			15-17

FALL OF YEAR FOUR			SPRING OF YEAR FOUR		
BIOL 310	Botany	4	BIOL 350	Ecology	4
BIOL 415	Genetics	4	BIOL 201	Biology Seminar (Fa or Sp)	1
	Liberal Studies/Electives	7-9		Liberal Studies/Electives	9-12
		Total			Total
		15-17			14-17

**SUGGESTED SEQUENCE**Major: **BIOLOGY****Odd Year Start**

FALL OF YEAR ONE			SPRING OF YEAR ONE		
INTD 105	Wesleyan Experience	2	BIOL 226	General Microbiology	4
INTD 115	Wesleyan Heritage	1	MATH 120	College Algebra	3
BIOL 110	General Biology	4	ENGL 121	Intermed. English Composition	3
BIOL 201	Biology Seminar (Fa or Sp)	1		Liberal Studies	6
ENGL 120	Intro. English Composition	3			
	Liberal Studies	3			
		Total 14			Total 16

FALL OF YEAR TWO			SPRING OF YEAR TWO		
BIOL 221	Human Anatomy & Physiology I	3	BIOL 222	Human Anatomy & Phys. II	3
CHEM 123	General Chemistry I	4	CHEM 124	Gen. Chemistry II	4
BIOL 201	Biology Seminar (Fa or Sp)	1		Liberal Studies	9
	Liberal Studies	6-8			
		Total 14-16			Total 16

FALL OF YEAR THREE			SPRING OF YEAR THREE		
BIOL 310	Botany	4	BIOL 350	Ecology	4
CHEM 300	Organic Chemistry I	4	BIOL 201	Biology Seminar (Fa or Sp)	1
CHEM 310	Organic Lab Techniques	2		Liberal Studies/Electives	10-12
	Liberal Studies/Electives	4-6			
		Total 14-16			Total 15-17

FALL OF YEAR FOUR			SPRING OF YEAR FOUR		
BIOL 415	Genetics	4	BIOL 330	Vertebrate Zoology	4
BIOL 325	Invertebrate Zoology	4	BIOL 201	Biology Seminar (Fa or Sp)	1
	Liberal Studies/Electives	6-8		Liberal Studies/Electives	10-12
		Total 14-16			Total 15-17

## Supplemental Advising Information

**Biology Seminar (BIOL 201):** Biology majors need to take 4 Biology Seminars (BIOL201), and it is recommended that they take 1 within their first year.

→ Fall topics = animals or environment

→ Spring topics = human-oriented

Please note that our Biology majors can be following a number of different paths, and need to be advised slightly differently in their first year:

- 1) **Pre-health related** (including pre-med, pre-dental, pre-optometry, pre-physician assistant, pre-chiropractic, pre-physical therapy, and others)
- 2) **Pre-veterinarian**
- 3) **General biology** (animals, plants, microbes, organisms, etc.)
- 4) **Environmental-related areas** (conservation biology, ecology, water or soil testing, etc.)

For students interested in **Pre-Health (1) or Pre-Vet (2) Fields:**

Highly recommended that students take **both Gen. Biology (Fall) & Gen. Microbiology or A&P I (Spring) AND General Chemistry I & II** in their first year:

- Critical for students to be able to take the MCAT/DAT/OAT/GRE and apply to Medical/Dental/Optometry/Vet School by the end of their 3<sup>rd</sup> undergraduate year. Otherwise, they are forced to take a year off after 4 years at KWU.
- However, if students have C's in their last year(s) of Biology or Chemistry courses on their high school transcripts, they should *not* take General Chemistry until their sophomore year.

Recommended **Liberal Studies** courses related to typical minors pursued by our pre-health students as well as post-graduate school requirements (listed in order of recommendation):

### PA

PSYC 101 – Introductory Psychology  
SOC 131 – The Sociological Imagination  
PSYC 120 – Positive Psychology  
BUSA 150 – Personal Finance  
SPES 117 – Pathway to Wellness  
INTD 107 – Introduction to Leadership  
EDUC 244 – Developmental Psychology

### CW

BUSA 100 – Introduction to Business  
REPH 111 – Ethics: Beyond Good & Bad  
SPES 120 – Personal, Community, and Global Health  
SOC 240 – Inequity & Stratification

### HE

COMM 130 – Public Speaking  
SPES 180 – Medical Terminology  
PHYS 121 – Physics of Fun

### NW (note: automatically fulfilled as part of the Biology major)

BIOL 110 – General Biology *OR*  
BIOL 105 – Biology for Non-majors (if C or lower in H.S. biol.)  
BIOL 226 – General Microbiology  
BIOL 102 – Environmental Awareness  
HIST 275 – The Majesty of America's Parklands

Other recommended **Electives:**

SPES 148 – First Aid & CPR  
SPES 150 – Foundations of SPES/HPER  
SPES 175 – Nutrition