

# B.S. in Biological Science: Human Biology Emphasis Pre-Pharmacy Advising Track



## Warner Pacific University 4-Year Degree and Advising Plan

This sample curriculum is designed to show you how a program may be constructed to complete the major in 4 years. Various factors can influence your personal degree plan, including transfer coursework. You should work with your academic advisor to design a personalized program of studies. This plan includes the courses required to apply and be accepted for most Doctor of Pharmacy programs for students who are in the pre-professional track for pre-pharmacy. This program includes multiple courses that are offered every 2 years on a rotating basis. Course offerings will vary depending on the date of your entry into the program.

### Plan for Entry in an Odd Year (Fall 2023, Fall 2025, etc.)

FIRST YEAR- Fall Semester	15 Credits	FIRST YEAR- Spring Semester	15 Credits
+ ~ BIO 211 General Biology I (with lab)	4*	+ BIO 212 General Biology II (with lab)	4*
~ URB 160 FLYC Topics Course	3	^ ~ MA 115 Precalculus	4
^ ~ EN 111 Composition & Rsrch I	3	~ EN 112 Composition & Rsrch II	3
~ BI 151 Bible as Sacred Story	3	~ Critical Thinking & Strategic Action (COMM course)	3
Elective	2	Elective	1

SECOND YEAR- Fall Semester	15 Credits	SECOND YEAR- Spring Semester	15 Credits
+ CHEM 211 General Chemistry I (with lab)	4*	+ CHEM 212 General Chemistry II (with lab)	4*
+ BIO 245 Evolution	3	+ ~ MA 242 Introduction to Statistics	3*
+ BIO 221 Human Anatomy & Physiology I (with lab)	4*	BIO 222 Human Anatomy & Physiology II (with lab)	4*
~ Health Course	2	~ Historical & Cultural Knowledge & Practice	3
Elective	2	Elective	1

THIRD YEAR- Fall Semester	16 Credits	THIRD YEAR- Spring Semester	15 Credits
+ CHEM 301 Organic Chemistry I (with lab)	4*	CHEM 302 Organic Chemistry II (with lab)	4*
+ BIO 250 Genetics (with lab)	4	+ BIO 370 Microbiology (with lab)	4*
+ BIO 420 Mammalian Physiology	4	~ ILR 300 Adv Info Literacy & Research	3
MA 251 Calculus I	4*	~ Appreciation of Diversity (SOC, SRM, HE)	3
		Elective	1

FOURTH YEAR- Fall Semester	15 Credits	FOURTH YEAR- Spring Semester	15 Credits
+ BIO 490 Senior Seminar	1	+ CHEM 412 Biochemistry (with lab)	4*
PHY 221 General Physics I (with lab)	4*	+ BIO 380 Invertebrate Zoology (with lab)	4
~ HUM 310 Exploring the Human Condition	3	~ Exploration of Spiritual Journey (REL course)	3
PSY 140 General Psychology	3*	EC 203 Economics	3*
~ Ethics (HUM, PHIL, SRM)	3	Elective	1
Elective	1		

Key: ~ General Education Core Requirement  
+ Major Requirement

^ Major Prerequisite Requirement  
\* Pre-Professional Program Requirement

### WPU Baccalaureate Degree Requirements

In order to earn a baccalaureate degree at WPU, you need to complete the following:

- All major and GE core requirements with grades of at least C- in each course
- A total of 120 semester credits, including at least 40 upper-division credits (300-level and 400-level courses),
- A cumulative GPA of at least 2.0.

Please refer to the catalog for specific options in each GE Core area and for additional information regarding degree requirements.

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### Plan for Entry in an Even Year (Fall 2022, Fall 2024, etc.)

FIRST YEAR- Fall Semester	15 Credits	FIRST YEAR- Spring Semester	15 Credits
+ ~ BIO 211 General Biology I (with lab)	4*	+ BIO 212 General Biology II (with lab)	4*
~ URB 160 FLYC Topics Course	3	^ ~ MA 115 Precalculus	4
^ ~ EN 111 Composition & Rsrch I	3	~ EN 112 Composition & Rsrch II	3
~ Health Course	2	PSY 140 General Psychology	3*
Elective	3	Elective	1

SECOND YEAR- Fall Semester	16 Credits	SECOND YEAR- Spring Semester	15 Credits
+ CHEM 211 General Chemistry I (with lab)	4*	+ CHEM 212 General Chemistry II (with lab)	4*
+ BIO 221 Human Anatomy & Physiology I (with lab)	4*	BIO 222 Human Anatomy & Physiology II (with lab)	4*
+ BIO 250 Genetics (with lab)	4	~ BI 151 Bible as Sacred Story	3
MA 251 Calculus I	4*	+ ~ MA 242 Introduction to Statistics	3*
		Elective	1

THIRD YEAR- Fall Semester	15 Credits	THIRD YEAR- Spring Semester	15 Credits
+ CHEM 301 Organic Chemistry I (with lab)	4*	CHEM 302 Organic Chemistry II (with lab)	4*
+ BIO 245 Evolution	3	+ CHEM 412 Biochemistry (with lab)	4*
PHY 221 General Physics I (with lab)	4*	+ BIO 380 Invertebrate Zoology (with lab)	4
~ Exploration of Spiritual Journey (REL course)	3	~ ILR 300 Adv Info Literacy & Research	3
Elective	1		

FOURTH YEAR- Fall Semester	15 Credits	FOURTH YEAR- Spring Semester	15 Credits
+ BIO 490 Senior Seminar	1	+ BIO 370 Microbiology (with lab)	4*
+ BIO 420 Mammalian Physiology	4	~ Critical Thinking & Strategic Action (COMM course)	3
~ Ethics (HUM, PHIL, SRM)	3	~ Historical & Cultural Knowledge & Practice	3
~ HUM 310 Exploring the Human Condition	3	EC 203 Economics	3*
~ Appreciation of Diversity (SOC, SRM, HE)	3	Elective	2
Elective	1		

Key: ~ General Education Core Requirement  
+ Major Requirement

^ Major Prerequisite Requirement  
\* Pre-Professional Program Requirement

### WPU Baccalaureate Degree Requirements

In order to earn a baccalaureate degree at WPU, you need to complete the following:

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Please refer to the catalog for specific options in each GE Core area and for additional information regarding degree requirements.

## **Specific General Education Recommendations for all Biological Sciences Majors**

Students must complete all general education requirements. In four of the requirement areas, the Biological Science faculty specifically recommend certain course choices to augment the student's Biological Science curriculum. This list represents those recommendations.

### **Health Course- Recommend one of the following**

- HE 150 Personal Health and Fitness (2 credits) (fall/spring)
- HE 210 Stress Management (2 credits) (fall even)

### **Ethics Course- Recommend one of the following**

- HUM 200 Ethics in Practice (3 credits) (fall)
- PHIL 300 Ethics (3 credits) (as needed)
- SRM 380 Sports Ethics (3 credits) (fall)

### **Appreciation of Diversity- Recommend one of the following**

- HE 340 Current Health Issues (3 credits) (fall odd)
- SOC 340 Race & Ethnic Relations (3 credits) (spring)
- SRM 260 Sociology in Sport (3 credits) (fall odd)

### **Critical Thinking and Strategic Action- Recommend one of the following**

- COMM 200 Interpersonal Communication (2 credits) (fall)
- COMM 220 Public Speaking (3 credits) (spring odd)