

BACHELOR OF SCIENCE (B.S.) MAJOR IN BIOLOGY (PRE-PHYSICIAN ASSISTANT CONCENTRATION)

**Minimum required: 120-124
semester credit hours**

General Requirements

- The general education core curriculum courses are listed in the degree plan below along with the statewide component code number. See the General Education Core Curriculum (<http://mycatalog.txstate.edu/undergraduate/general-education-core-curriculum>) section of this catalog for the Texas State requirements and options in the core curriculum, including Honors courses.
- Majors must complete a minimum of 36 advanced hours (3000 or 4000 level courses).
- Majors must select a minor from the approved list of Undergraduate Minors (<http://www.mycatalog.txstate.edu/undergraduate/minors>). The recommended minor is Chemistry or Biochemistry. Minor and electives should be chosen in consultation with the academic advisor.
- The minimum number of hours required for this degree program is 120. The number of free elective hours a student will complete depends on the number of hours a student may need to achieve the required 120 total or 36 advanced hours.
- Nine semester credit hours must be writing intensive (WI).
- If two years of the same foreign language were taken in high school, then no additional language hours will be required. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
- For transfer students, 24 semester credit hours in biology, chemistry and physics (or their equivalents) may be transferred from a Texas public institution of higher education for the Biology Field of Study and be applied to the Bachelor of Science degree with a major in Biology at Texas State University. More information about the Field of Study (<http://mycatalog.txstate.edu/undergraduate/general-information/academic-policies/texas-legislative-requirements>) is available in the Academic Policies section of this catalog. The transferable Texas Common Course Number (TCCN) is listed below the Texas State University course number in the following course list.

Code	Title	Hours
BIO 1330	Functional Biology	3
TCCN: BIOL 1306		
BIO 1130	Functional Biology Laboratory	1
TCCN: BIOL 1106		
BIO 1331	Organismal Biology	3
TCCN: BIOL 1307		
BIO 1131	Organismal Biology Laboratory	1
TCCN: BIOL 1107		
CHEM 1341	General Chemistry I	3
TCCN: CHEM 1311		
CHEM 1141	General Chemistry Laboratory I	1

TCCN: CHEM 1111		
CHEM 1342	General Chemistry II	3
TCCN: CHEM 1312		
CHEM 1142	General Chemistry Laboratory II	1
TCCN: CHEM 1112		
CHEM 2341	Organic Chemistry I	3
TCCN: CHEM 2323		
CHEM 2141	Organic Chemistry Laboratory I	1
TCCN: CHEM 2123		
PHYS 1315	General Physics I	3
TCCN: PHYS 1301		
PHYS 1115	General Physics I Laboratory	1
TCCN: PHYS 1101		
Total Hours		24

Course Requirements

		Freshman	
	First Semester Hours		Second Semester Hours
BIO 1330 (Life & Physical Sciences Component Code 030)	3	BIO 1331 (Life & Physical Sciences Component Code 030)	3
BIO 1130 (Life & Physical Sciences Component Code 030)	1	BIO 1131 (Life & Physical Sciences Component Code 030)	1
CHEM 1141	1	CHEM 1142	1
CHEM 1341	3	CHEM 1342	3
US 1100	1	ENG 1320 (Communication Component Code 010)	3
ENG 1310 (Communication Component Code 010)	3	HIST 1310 (American History Component Code 060)	3
POSI 2310 (Government/Political Science Component Code 070)	3		
		15	14
		Sophomore	
	First Semester Hours		Second Semester Hours
BIO 2450	4	BIO 2400	4
CHEM 2141	1	CHEM 2142	1
CHEM 2341	3	CHEM 2342	3
HIST 1320 (American History Component Code 060)	3	Select one of the following: (Creative Arts Component Code 050)	3
Mathematics Component Code 020 (See Pair Choices) ¹	3-4	ART 2313	
		DAN 2313	
		MU 2313	
		TH 2313	
		POSI 2320 (Government/Political Science Component Code 070)	3

2 Bachelor of Science (B.S.) Major in Biology (Pre-Physician Assistant Concentration)

		Mathematics (See Pair Choices) ¹	3-4
		14-15	17-18
Junior			
First Semester		Second Semester	
	Hours		Hours
BIO 4416	4	BIO 3421	4
PHYS 1315	3	PHYS 1325	3
PHYS 1115	1	PHYS 1125	1
COMM 1310 (Component Area Option Code 090/091)	3	ENG Literature (Component Area Option Code 090/094)	3
PHIL 1320 (Language, Philosophy & Culture Component Code 040)	3	PSY 1300 (Social & Behavioral Sciences Component Code 080)	3
14		14	
Senior			
First Semester		Second Semester	
	Hours		Hours
BIO 4464	4	BIO 4301	3
BIO Advanced Electives ²	4-5	BIO Advanced Electives ²	6-7
Minor/Advanced Electives	8	Minor/Advanced Electives	3
		Free Electives	4
16-17		16-17	

Total Hours: 120-124

¹ Mathematics requirements may be satisfied by taking MATH 2321 and MATH 2328, or MATH 2471 and MATH 2328.

² BIO 4299 requires faculty and departmental chair approval to count toward the 15 hours of advanced BIO electives. Biology advanced electives cannot include: BIO 3351, BIO 4305, BIO 4402, BIO 4403, and BIO 4408.