

# BACHELOR OF SCIENCE IN BIOLOGY (PRE-PHYSICIAN ASSISTANT)

Web Site: <https://twu.edu/biology/undergraduate-programs/bachelor-of-science-in-biology-for-pre-health-professions/>

## Recommended Plan of Study

### First Year

Fall		TCCN	SCHs
BIOL 1113 & BIOL 1111	Principles of Biology I and Principles of Biology I Laboratory	BIOL 1406 & BIOL 1106	4
CHEM 1113 & CHEM 1111	General Chemistry I and General Chemistry Laboratory I	CHEM 1311 & CHEM 1111	4
MATH 1303	College Algebra	MATH 1314	3
ENG 1013	Composition I	ENGL 1301	3
UNIV 1231	Learning Frameworks: First-Year Seminar	EDUC 1100, EDUC 1200, EDUC 1300	1
<b>SCHs</b>			<b>15</b>

Spring		TCCN	SCHs
BIOL 1123 & BIOL 1121	Principles of Biology II and Principles of Biology II Laboratory	BIOL 1407 & BIOL 1107	4
CHEM 1123 & CHEM 1121	General Chemistry II and General Chemistry Laboratory II	CHEM 1312 & CHEM 1112	4
MATH 1703	Elementary Statistics I	MATH 1342	3
PSY 1013	Introduction to General Psychology	PSYC 2301	3
ENG 1023	Composition II	ENGL 1302	3
<b>SCHs</b>			<b>17</b>

### Second Year

Fall		TCCN	SCHs
BACT 3113 & BACT 3111	General Microbiology and General Microbiology Laboratory		4
CHEM 2213 & CHEM 2211	Organic Chemistry I and Organic Chemistry Laboratory I	CHEM 2323 & CHEM 2123	4
ZOOL 3243 & ZOOL 3241	Systemic Anatomy and Systemic Anatomy Laboratory		4
<b>SCHs</b>			<b>12</b>

Spring		TCCN	SCHs
CHEM 3223 & CHEM 3221	Organic Chemistry II and Organic Chemistry Laboratory II		4
ZOOL 4243 & ZOOL 4241	Medical Physiology and Medical Physiology Laboratory		4
PHIL 3073	Bioethics		3
HS 3033	Medical Terminology		3
<b>SCHs</b>			<b>14</b>

### Third Year

Fall		TCCN	SCHs
BIOL 4813 & BIOL 4811	Molecular and Cellular Biology: Gene Expression and Molecular and Cellular Biology: Gene Expression Laboratory		4
HIST 1013	History of the United States, 1492-1865	HIST 1301	3
Biology Elective			3
Additional Department Requirements			3
<b>SCHs</b>			<b>13</b>

Spring		TCCN	SCHs
BIOL 4823 & BIOL 4821	Molecular and Cellular Biology: Genetics and Inheritance and Molecular and Cellular Biology: Genetics and Inheritance Laboratory		4
BACT 4113 & BACT 4111	Immunology and Immunology Laboratory		4
HIST 1023	History of the United States, 1865 to the Present	HIST 1302	3
SOCI 1013	Introductory Sociology	SOCI 1301	3
Multicultural Women's Studies CAO Core			3
<b>SCHs</b>			<b>17</b>

### Fourth Year

Fall		TCCN	SCHs
PHYS 1133 & PHYS 1131	Principles of Physics I and Principles of Physics Laboratory I	PHYS 1301 & PHYS 1101	4
POLS 2013	U.S. National Government	GOVT 2305	3
BIOL 4681	Biology Seminar		1
Additional Department Requirements			3
Additional Department Requirements			3
Elective			3
<b>SCHs</b>			<b>17</b>

Spring		TCCN	SCHs
PHYS 1143 & PHYS 1141	Principles of Physics II and Principles of Physics Laboratory II	PHYS 1302 & PHYS 1102	4
POLS 2023	Texas Government	GOVT 2306	3
Creative Arts Core			3
Upper-level General Elective			3
Elective			3
<b>SCHs</b>			<b>16</b>

<b>Total SCHs:</b>			<b>121</b>
--------------------	--	--	------------