

## Biology Major for Teacher Certification (B.S.)

Students must be admitted to the Teacher Education program and complete an approved minor and secondary education professional studies courses as well as TEMS 311.

*Requisites, previous, or concurrent requirements in ().*

Semester	Biology courses	Other required courses
<b>YEAR #1 – FRESHMAN YEAR</b>		
1 <sup>st</sup> semester	BIOL 181 (Math 082 or successful placement out of) BIOL 181L (Math 082 or successful placement out of)	CHEM 111 CHEM 111L MATH 132B
2 <sup>nd</sup> semester	BIOL 182 (Chem 111 requisite, previous or concurrent) BIOL 182L (Chem 111 requisite, previous or concurrent)	CHEM 112 CHEM 112L MATH 140 or 161
<b>YEAR #2 – SOPHOMORE YEAR</b>		
3 <sup>rd</sup> semester	BIOL 260 (Biol 182, 182L, MATH 132B or 140 or 161) <b>One choice from:</b> BIOL 211, 212, 213, or 232 (Biol 182) BIOL 232 (Biol 182)	CHEM 230 CHEM 231 PHYS 111 or 211 PHYS 111L or 211L
4 <sup>th</sup> semester	BIOL 291 (Biol 181, Math 132B or 140 or 161) BIOL 233 (Biol 232) <b>One choice from:</b> BIOL 211, 212, 213, or 232 (Biol 182) BIOL 370 (Biol 182L; 211 or 212 or 213)	PHYS 112 or 212 PHYS 112L or 212L CS 160
<b>YEAR #3 – JUNIOR YEAR</b>		
5 <sup>th</sup> semester	BIOL 331 (Biol 182L, 260) TEMS 311	PHYS 106A
6 <sup>th</sup> semester	BIOL 360 (Biol 182L, 260, Chem 230) BIOL 352 (Biol 182L, 211, 212, or 213)	RPW 304
<b>YEAR #4 – SENIOR YEAR</b>		
7 <sup>th</sup> semester	BIOL 380 (Biol 182L, 211; Math 132B or 140 or 161)	
8 <sup>th</sup> semester	BIOL 491 (211, 212, 291, and 260 or 360 or 370 or 380)	

*The following courses cannot be used toward the required electives in the major: Biol 390, 393, 491, 498, 499*