Bachelor of Science Biology, Cellular and Molecular

Stephen F. Austin State University
Degree MAP

Current as of Fall 2024

First Year

Fall Term

Course	Course Number	Course Group/Description	Required Credit Hours
BIOL	1306/1106	Biology for Science Majors I / Lab	4
CHEM	1311/1111	General Chemistry I / Lab	4
ENGL	1301	Rhetoric and Composition	3
GOVT	2305	Federal Government	3
MATH*	2211/2011	Precalculus A/Lab	2
		Total Semester Hours	**16**

Spring Term

Course	Course Number	Course Group/Description	Required Credit Hours
BIOL	1307/1107	Biology for Science Majors II / Lab	4
CHEM	1312/1112	General Chemistry II / Lab	4
ENGL	1302	Research and Argument	3
GOVT	2306	Texas Government	3
MATH*	2212/2012	Precalculus B / Lab	2
		Total Semester Hours	**16**

Second Year

Fall Term

Course	Course Number	Course Group/Description	Required Credit Hours
BIOL	2361/2061 or 2371/2071	Plant Form and Function / Lab OR Animal Form and Function / Lab	3
CHEM	3331/3131	Organic Chemistry I / Lab	4
MATH	2313/2113	Calculus I / Lab	4
		Core SPCH	3
		Total Semester Hours	**14**

Spring Term

Course	Course Number	Course Group/Description	Required Credit Hours
BIOL	3440/3040 or 4465/4065	Animal (including Human) Physiology / Lab OR Plant Physiology / Lab	4
BIOL	3453/3053	Genetics / Lab	4
ENGL	2311	Technical and Scientific Writing	3
		Additional Mathematics Course	3
		Total Semester Hours	**14**

Third Year

Fall Term

Course	Course Number	Course Group/Description	Required Credit Hours
BIOL	3481/3081 or 4367/4067	General Ecology / Lab OR Terrestrial Plant Ecology / Lab	4
HIST	1301	United States History I	3
PHYS	1301/1101	Mechanics and Heat / Lab	4
		Advanced Biology Elective	3
		Computer Science Course	3
		Total Semester Hours	**17**

Spring Term

Course	Course Number	Course Group/Description	Required Credit Hours
BIOL	4351	Cellular Biology	3
HIST	1302	United States History II	3
		Core LPC	3
		Additional Science / Lab	4
		Advanced Biology Elective	4
		Total Semester Hours	**17**

Fourth Year

Fall Term

Course	Course Number	Course Group/Description	Required Credit Hours
BIOL	4352	Molecular Biology	3
		BIOL 3421/3021 or BIOL 3443/3043	4
		Core CA	3
		Advanced Biology Electives	6
		Total Semester Hours	**16**

Spring Term

Course	Course Number	Course Group/Description	Required Credit Hours
BIOL	4389	Evolution	3
BIOL	4199	Seminar in Biology	1
		Core S/SB	3
		Advanced Biology Electives	7
		Total Semester Hours	**14**

Total Hours for Degree **124**

* Only required if test scores do not meet Calculus I requirements.