

# BIOLOGY MAJOR (BS TRADITIONAL)

Biology majors develop a strong foundation in biology by exploring cell biology, genetics, molecular biology, chemistry, evolutionary theory, scientific methodology, and laboratory techniques in our core curriculum. Students then have the opportunity to tailor their degree with various electives including immunology, microbiology, human anatomy and physiology, and human gross anatomy, in which students have access to a human cadaver lab. The coursework pushes students to sharpen their critical thinking, scientific reasoning, and laboratory skills. Students in the Bachelor of Science program are also required to participate in relevant research experiences on campus.

## General Education Requirements

All degree seeking undergraduate students must complete the general education (<http://catalog.csp.edu/archive/2020-2021/undergraduate/academic-information/general-education-requirements/>) requirements.

## Degree Requirements

Bachelor of Science (<http://catalog.csp.edu/archive/2020-2021/undergraduate/academic-information/graduation-requirements/#bs>) degree consists of a major of typically 45 to 60 credits, general education courses, and elective courses totaling a minimum of 120 credits.

Code	Title	Credits
<b>Prerequisites from General Education</b>		
BIO 120	General Biology I (4)	
CHE 115	General Chemistry I (4)	
MAT 125	Precalculus (4)	
or MAT 135	Calculus I (4)	
<b>Required</b>		
Biology Core:		16
BIO 130	General Biology II (4)	
BIO 210	Genetics (4)	
BIO 330	Cell Biology (4)	
SCI 435	Research and Techniques (4)	
or SCI 455	Research in Science (4)	
Chemistry Requirements:		12
CHE 116	General Chemistry II (4)	
CHE 221	Organic Chemistry I (4)	
CHE 328	Biochemistry I (4)	
Mathematics Requirement:		3-4
MAT 110	Introduction to Probability and Statistics (3)	
or MAT 330	Advanced Probability and Statistics (4)	
Physics Requirement:		4
PHS 112	Introductory Physics for Biological and Health Sciences I (4)	
or PHS 221	General Physics I (Calc Based) (4)	
SCI 453	Science Senior Capstone	2
<b>Electives</b>		
Select a minimum of 17 credits of the following: (at least 2 courses must be 300/400 level)		17

BIO 230	Animal Biology and Physiology (4)
BIO 300	Microbiology (4)
BIO 315	Human Anatomy and Physiology I (4)
BIO 316	Human Anatomy and Physiology II (4)
BIO 335	Molecular Biology (4)
BIO 340	Science Issues and Ethics (4)
BIO 350	Medical Terminology (2)
BIO 415	Biology of Aging (3)
BIO 430	Immunology (4)
BIO 440	Human Gross Anatomy (4)
BIO 497	Biology Teaching Assistant (1)
CHE 329	Biochemistry II (4)
KHS 473	Biomechanics (4)
PSY 310	Physiological Psychology (4)
SCI 436	Advanced Research & Techniques (4)
SCI 456	Advanced Research in Science (4)
<b>Total Credits</b>	<b>54-55</b>