

Biomedical Sciences Major
Semester by Semester Guideline (**Pre-Vet Interest**)

	Credits		Credits
Fall Semester, Freshman Year		Spring Semester, Freshman Year	
BMS 192 Seminar in Biomedical Sciences (not required)	1	CHEM 113, 114 General Chemistry II and Lab	3, 1
LIFE 102 Attributes of Living Systems	4	MATH 155 (or 160) Calculus for Biological Sciences	4
CHEM 111, 112 General Chemistry I and Lab	4, 1	BMS 260 Introduction to Biomedical Sciences (S) (<i>BMS Directed Elective; required for freshman</i>)	3
CO 150 College Composition (AUCC, 1A)	3	Social/Behavioral Sciences (AUCC, 3C)	3
Arts/Humanities (AUCC, 3B)	3	Arts/ Humanities (AUCC, 3B)	3
Total	16		17
Fall Semester, Sophomore Year		Spring Semester, Sophomore Year	
CHEM 341 Organic Chemistry I	3	CHEM 343/344 Organic Chemistry II and Lab	3, 2
LIFE 210 Introductory Eukaryotic Cell Biology (F)	3	BMS 360 Fundamentals of Physiology (S)	4
LIFE 212 Introductory Cell Biology Lab (F)	2	BMS 302 Laboratory in Principles of Physiology	2
STAT 301 (or STAT 307) Statistical Methods	3	LIFE 201B Introductory Genetics* (S)	3
Historical Perspective (AUCC, 3D)	3	Advanced Writing (AUCC, 2)	3
Total	14		17
Fall Semester, Junior Year		Spring Semester, Junior Year	
MIP 300 General Microbiology	3	BMS 305 Domestic Animal Gross Anatomy (S)	4
MIP302 General Microbiology Laboratory	2	BMS Directed Elective	3
BC 351 Principles of Biochemistry	4	BMS Directed Elective	3
BMS Directed Electives	6	Free Electives (upper-division)	6
Total	15		16
Fall Semester, Senior Year		Spring Semester, Senior Year	
BMS 460 Essentials of Pathophysiology (F)	4	BMS Directed and /or Free Electives	6
BMS 492 Seminar – Pathophysiology (F)	1	Global and Cultural Awareness (AUCC, 3E)	3
PH 121 General Physics I	5	PH 122 General Physics II	5
BMS Directed and /or Free Electives	3		
Total	13		14

*CSU's Professional Veterinary Medicine program prefers an upper-level genetics course. Please see advisor for options.

Note: Need 15 credits in BMS Directed Electives