

**Bachelor of Science in Biology
Concentration in Cell & Molecular Biology
2018-2019 Degree Plan**

CORE CURRICULUM (See note below)	42 SCH	
	Grd	SCH
(010) COMMUNICATION		
ENGL 1301 Composition I		3
ENGL 2311 Technical Writing		3
(020) MATHEMATICS		
MATH 2313 Calculus I		3
(030) LIFE and PHYSICAL SCIENCES		
BIOL 1306 General Biology I		3
BIOL 1307 General Biology II		3
(040) LANGUAGE, PHILOSOPHY AND CULTURE		
Lang/Phil/Culture		3
(050) CREATIVE ARTS		
Creative Arts		3
(060) AMERICAN HISTORY		
HIST 1301 American History to 1865		3
HIST 1302 American History since 1865		3
(070) GOVERNMENT/POLITICAL SCIENCE		
GOVT 2305 Federal Government		3
GOVT 2306 Texas Government		3
(080) SOCIAL & BEHAVIORAL SCIENCES		
Social & Behavioral Sciences		3
(090) COMPONENT AREA OPTION		
CHEM 1311 Chemistry I		3
CHEM 1312 Chemistry II		3
REQUIRED SUPPORT COURSES		
	26 SCH	
	Grd	SCH
UNIV 1101 Jaguar Tracks 1		1
UNIV 2101 Jaguar Tracks 2		1
STEM 3101 Jaguar Tracks 3		1
STEM 4101 Jaguar Tracks 4		1
MATH 2113 Calculus I Lab		1
MATH 3301 or 4303 (Biostatistics or Statistical Methods)		3
CHEM 1111 General Chemistry I laboratory		1
CHEM 1112 General Chemistry II laboratory		1
CHEM 2323/2123 Organic Chemistry I w/lab		3/1
CHEM 2325/2125 Organic Chemistry II w/lab		3/1
PHYS 1301/1101 General Physics I w/lab		3/1
PHYS 1302/1102 General Physics II w/lab		3/1

MAJOR (REQUIRED) COURSES 2.0 overall GPA for major	33-35 SCH	
	Grd	SCH
BIOL 1106 General Biology I laboratory		1
BIOL 1107 General Biology II laboratory		1
BIOL 2411 Genetics		4
BIOL 3402 Evolution		4
BIOL 2421 Microbiology		4
BIOL 3407 Ecology		4
BIOL 3409 Cellular Physiology		4
BIOL 4102 Cell & Molecular Biology		1
BIOL Advanced elective with lab (Must be fulfilled by a concentration advanced elective- See List Below)		4
BIOL advanced electives (Can be fulfilled by any advanced electives)		6-8
CONCENTRATION REQUIRED COURSES		
	16 SCH	
	Grd	SCH
BIOL 2431 Cell Biology		4
BIOL 4401 Molecular Biology		4
2 of the following upper-division electives		6-8
BIOL 4402 Developmental Biology		
BIOL 4406 Bacteriology		
BIOL 4407 Virology		
BIOL 4408 Immunology		
CHEM 4341 Biochemistry I		
CHEM 4342 Biochemistry II		
ELECTIVES		
As needed to complete 120 credit hours	Grd	SCH

120 credit hours required for degree

36 advanced credit hours required for degree

25% of courses must be taken at A&M-SA for degree

An earned letter grade of C in the following courses is required for this degree: BIOL 1306, BIOL 1106, BIOL 1307, BIOL 1107