

BACHELOR OF SCIENCE IN BIOLOGY CONCENTRATION IN CELL & MOLECULAR BIOLOGY

2019-2020 Degree Plan

CORE CURRICULUM (See note below)		42 SCH	
		Grd	SCH
<i>(010) COMMUNICATION</i>			
ENGL 1301	Composition I		3
ENGL 1302	Composition II OR ENGL 2311 Technical Writing		3
<i>(020) MATHEMATICS</i>			
MATH 2313	Calculus I		3
<i>(030) LIFE and PHYSICAL SCIENCES</i>			
BIOL 1306	General Biology I		3
BIOL 1307	General Biology II		3
<i>(040) LANGUAGE, PHILOSOPHY AND CULTURE</i>			
Lang/Phil/Culture			3
<i>(050) CREATIVE ARTS</i>			
Creative Arts			3
<i>(060) AMERICAN HISTORY</i>			
American History			3
American History			3
<i>(070) GOVERNMENT/POLITICAL SCIENCE</i>			
Government/Political Science			3
Government/Political Science			3
<i>(080) SOCIAL & BEHAVIORAL SCIENCES</i>			
Social & Behavioral Sciences			3
<i>(090) COMPONENT AREA OPTION</i>			
CHEM 1311	Chemistry I		3
CHEM 1312	Chemistry II		3
REQUIRED SUPPORT COURSES		23 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
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

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

MAJOR (REQUIRED) COURSES		37-39 SCH	
2.0 overall GPA for major		Grd	SCH
BIOL 1106	General Biology I laboratory		1
BIOL 1107	General Biology II laboratory		1
BIOL 2415	Statistics in Biology & Medicine		4
BIOL 2411	Genetics		4
BIOL 3402	Evolution		4
BIOL 2421	Microbiology		4
BIOL 3407	Ecology		4
BIOL 3409	Cellular Physiology		4
BIOL 4101, 4102, 4103, or 4104	Seminar (Interdisciplinary, Cell & Molec, Zoology, or Ecology topics respectively.)		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
Two of the following upper-division electives (6-8 SCH)			
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