## 2017/2018 NAU-Yuma Bachelor of Science Biological and Ecological Sciences

## Imperial Valley College Associate in Science - General Science

	Advising Sheet			
REQUIRED LOW	ER DIVISION MAJOR COURSES		Term Completed	Grade
BIOL 180	General Biology: Molecules, Cells and Genetics	4 units		
BIOL 182	General Biology: Principles of Organismal Biology	4 units		
CHEM 200	General Inorganic Chemistry I	5 units		
CHEM 202	General Inorganic Chemistry II	5 units		
CHEM 204	Organic Chemistry I	5 units		
MATH 192	Calculus I	4 units		
PHYS 200	General Physics I	4 units		
PHYS 202	General Physics II	4 units		
CHEM 206 is rec	ommended: Organic Chemistry II			
INTERSEGMENT	AL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC-NAU)			
AREA 1 – ENGLIS	SH COMMUNICATION			
ENGL 110	Composition and Reading	4 units		
ENGL 201	Advanced Composition	3 units		
COMM 100 or	Oral Communication or	3 units		
COMM 180	Argumentation and Debate	5 units		
AREA 2 - MATH	EMATICAL CONCEPTS AND QUANTITATIVE REASONING			
Math 192	Calculus I	4 units	Major	Prep
AREA 3 – ARTS A	NND HUMANITIES (3 courses with at least 1 course from Arts and 1 course from	n Humanities)		
	IGETC 3A – Arts course	3 units		
	IGETC 3B – Humanities: HIST 101 (G) or HIST/LAS 131 (G) or	3 units		
	HIST/LAS 132 (E) or RELS 100 (G)	5 units		
	IGETC 3A or 3B course	3 units		
AREA 4 – SOCIAI	AND BEHAVIORAL SCIENCES (3 courses from at least 2 different academic dis	ciplines)		
	ADS/SOC 150 (E) Recommended or ANTH 102 (G) or AIS/ANTH 106 (E) or HIST 101 (G) or HIST/LAS 131 (G) or HIST/LAS 132 (E)	3 units		
	IGETC Social and Behavioral Sciences course	3 units		
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AREA 5 - PHYSIC	CAL AND BIOLOGICAL SCIENCES (Minimum 7- 9 units with at least one lab cour	se)		
CHEM 100	Introduction to Chemistry	4 units		
BIOL 180	General Biology: Molecules, Cells and Genetics	4 units	Major	Prep
IVC GRADUATIO	N REQUIREMENTS: GENERAL SCIENCE &/OR UNIVERSITY STUDIES: SCIENCE &	MATH WITH IGE	TC-CSU	·
POLS 102	American Government and Politics; IGETC Area 4 course	3 units		
HIST 120 or	United States History: Prehistory to Reconstruction or			
HIST 121	United States History: Reconstruction to the Present;	3 units		
	IGETC Area 4 course			
HE 102	Health Education	3 units		
PE 100	Lifetime Exercise Science	2 units		
PE 100				
	Physical Education Activity course	1 unit		

## **NAU Additional Information:**

- IGETC-NAU: Complete one (E) Ethnic and one (G) Global recommended course in order to meet NAU's Diversity Requirements.
- NAU accepts 64 transferable units that can be applied to meet the NAU degree unit requirement.

G00 Name:
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## Bachelor of Science Biological and Ecological Sciences 2017-2018 Undergraduate Catalog (120 Units) (Upper Division Coursework)

The Biological and Ecological Sciences degree encompasses numerous cutting-edge disciplines. Each offers a multitude of exciting career paths. You can also train to teach biology in secondary or primary schools. You can prepare for admission to graduate, medical, dental, or veterinary school, or for other professional training.

MAJOR COURSES 53 credits				
COURSE NUMBER	COURSE TITLE	UNITS		
BIO 181/L	Unity of Life I: The Life of the Cell/Lab (BIOL 180 at IVC)	4		
BIO 182/L	Unity of Life II: Lives of Multicellular Organisms/Lab (BIOL 182 at IVC)	4		
BSC 326/326LW (Jr. Level	Ecology: Ecology Lab	4		
Writing Requirement)	Ecology: Ecology Lab	4		
BSC 350/350L	Classical and Molecular Genetics: Genetics Lab	4		
BSC 408 or	Fieldwork Experience OR	3		
BSC 485	Undergraduate Research	3		
BSC 435C	Evolutionary Biology	3		
BSC 460, BSC 460L or	Principles of Biochemistry: Biochemistry Lab, or Fundamental Biochemistry;	4		
CHM 360. CHM 460L	Biochemistry Lab	4		
PHYSICAL SCIENCE FOUND	ATION REQUIREMENT:			
CHM 151/L	General Chemistry I/Lab (CHEM 200 at IVC)	4		
CHM 152/L	General Chemistry II/Lab (CHEM 202 at IVC)	4		
CHM 235	General Organic Chemistry I/Lab (CHEM 204 at IVC)	4		
CHM 238 (recommended,	General Organic Chemistry II/Lab (CHEM 206 at IVC)	4		
not required)	General Organic Chemistry II/Lab (Chemistry 200 at IVC)	+		
CHOOSE ONE OF THE FOLL	OWING MATH COMBINATIONS:			
MAT 125 AND (STA 270	Pre-calculus Mathematics (MATH 190 at IVC) and	4		
OR PSY 230) OR	Statistics (MATH 119 at IVC)	4		
MAT 136	Calculus I (MATH 192 at IVC)	4		
PHYSICS COMBINATION				
PHY 111 AND	General Physics I	4		
PHY 112	General Physics II	4		
OR				
PHY 161 AND	University Physics I (PHYS 200 at IVC)	4		
PHY 262/L	University Physics II (PHYS 202 at IVC)	4		
	nal NAU course work: any 100 to 200 level BIO courses except BIO 100 or any BIO			
recitation. Any BSC course except 310; up to 6 hours from BIO 497. Up to 6 units of non-BIO prefix courses				
from the following: PSY 32	0, 350, 355, 370, 432			
Total NAU credits	56 credits			
General Electives As needed to reach 120 credits				
Total credits required to complete degree 120 credits				

Program requirements are subject to change each year. Please see your NAU academic advisor for the most current information.