2018/2019 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 | ND HUMANITIES (3 courses with at least 1 course from Arts and 1 course fron | 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 | 3 units | | |
| | HIST 101 (G) or HIST/LAS 131 (G) or HIST/LAS 132 (E) | 3 units | | |
| | IGETC Social and Behavioral Sciences course | 3 units | | |
| | IGETC Social and Behavioral Sciences course | 3 units | | |
| 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 | | |
| | | | + | |
| | 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 2018-2019 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 credit | | | | |
|-------------------------------|---|--------------------|--|--|
| 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 460LC | 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/L | General Organic Chemistry I/Lab (CHEM 204 at IVC) | 4 | | |
| CHM 238 (recommended, | Consist Organia Chamistry II / Lab (CUEM 200 at IVC) | 4 | | |
| not required) | General Organic Chemistry II/Lab (CHEM 206 at IVC) | 4 | | |
| 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 | | |
| At least 14 units of addition | 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 | | | |
| | | 56 credi | | |
| Total NAU credits | | | | |
| General Electives | As needed | to reach 120 credi | | |
| Total credits required to co | omplete degree | 120 credi | | |

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