BIOLOGY

Associate in Arts Degree

Biology is the study of living organisms from those composed of one cell to those made of trillions of cells and everything in between, including bacteria, mushrooms, humans, other animals, and plants. Biology majors also receive a strong foundation in other science fields, as these are relevant to living organisms. For example, all living things are made of molecules. So to understand how these molecules will interact in living organisms, biology majors will receive a foundation in chemistry. Students in the biology program at Oxnard College will learn about the diversity of living organisms and will become skilled in laboratory techniques. Various career options in biology will also be explored. Biology majors have the choice between two degree options. The Associate in Arts in Biology (A.A.) is recommended for those looking to transfer to a University of California school or planning on a career in the medical or dental field. The Associate in Science in Biology for Transfer (AS-T) is recommended for those students planning to transfer to a California State University school as it provides certain guarantees upon transfer. See a counselor for more information. For students interested in the wonder of the living world, the Oxnard College Biology program is the place to be. ***University of California Limitation on Transfer of Biology Courses*** The UC will give credit for only one Biology series: BIOL R101 + R101L or BIOL R120 + R120L. No credit will be given for BIOL R101 + R101L if taken after R120 + R120L. *For more information contact: Dr. Michael Nicholson (805) 678-5197 mnicholson@vcccd.edu*

Required Core Courses		Units
BIOL R120	Principles of Biology I ***Prerequisites: CHEM R120 and MATH R005 or MATH R015 or placement based on multiple measurements assessments **Advisories: ENGL R097 or ENGL R100 or ENGL R101***	4.0
BIOL R120L	Principles of Biology I Lab ***Prerequisites: BIOL R120 or concurrent enrollment***	1.0
BIOL R122	Principles of Biology II ***Prerequisites: BIOL R120 and BIOL R120L and ENGL R100 or ENGL R101 or ENGL R101H and MATH R005 or MATH R014 or MATH R014B or MATH R015 or placement as determined by the college's multiple measures assessment process***	4.0
BIOL R122L	Principles of Biology II Lab ***Prerequisites: BIOL R120 and BIOL R120L and BIOL R122 or concurrent enrollment***	1.0
CHEM R120	General Chemistry I ***Prerequisites: CHEM R110 and MATH R015 or MATH R005 or MATH R014 or MATH R033 or placement as determined by the college's multiple measures assessment process***	5.0
CHEM R122	General Chemistry II ***Prerequisites: CHEM R120***	5.0
MATH R105	Introductory Statistics ***Prerequisites: MATH R005 or MATH R014 or MATH R014B or MATH R015 or MATH R032 or MATH R033 or placement as determined by the college's multiple measures assessment process***	4.0

Required Additional Courses:
Minimum of **4** units from:

BIOL R100	Marine Biology (aka MST R100) ***Advisories: ENGL R095 and ENGL R097 or ENGL R101 or placement based on multiple measurements assessments***	3.0
BIOL R100L	Marine Biology Laboratory (aka MST R100L) ***Prerequisites: BIOL R100*** ***Advisories: ENGL R095 and ENGL R097 or ENGL R101 or placement based on multiple measurements assessments***	1.0
BIOL R170	Biological Marine Resource Management ***Corequisites: GEOL R178 (same as MST R178)***	1.0
BIOL R199	Directed Studies in Biology ***Prerequisites: BIOL R101 and BIOL R101L***	1-3

CHEM R130	Organic Chemistry I **** Prerequisites: CHEM R122***	5.0
ESRM R100	Introduction to Environmental Science *****Advisories: ENGL R101 or ENGL R101H***	3.0
MATH R120	Calculus with Analytic Geometry I **** Prerequisites: MATH R115 or MATH R116 or MATH R117 or placement as determined by the college's multiple measures assessment process***	5.0
MATH R121	Calculus with Analytic Geometry II **** Prerequisites: MATH R120***	5.0
MICR R100	Principles of Microbiology ****Prerequisites: CHEM R104 or CHEM R110 or CHEM R112 or CHEM R120 or BIOL R120 and BIOL R120L and ANAT R101 and PHSO R101 and MATH R015 or MATH R005 or MATH R014 or MATH R014B or MATH R033 or placement as determined by the college's multiple measures assessment process***	3.0
MICR R100L	Principles of Microbiology Lab **** Prerequisites: MICR R100 or concurrent enrollment***	2.0
MST R160	Introduction to Research in Natural Resource Management **** Prerequisites: ESRM R100*** *****Advisories: BIOL R100 and BIOL R100L; or BIOL R101 or BIOL R101H and BIOL R101L or CHEM R104; or GEOG R101 and GEOG R101L or GEOL R101 and GEOL R101L or GEOL R103 or GEOL R103L; or MST R100 and MST R100L or MST R103 and MST R103L or PHYS R101 and PHYS R101L or PHYS R121***	4.0
PHSO R101	Human Physiology ****Prerequisites: ANAT R101 and CHEM R104 or CHEM R110 and ENGL R097 and MATH R005 or MATH R014 or MATH R015 or MATH R032 or MATH R033 or placement as determined by the college's multiple measures assessment process***	5.0
PHYS R101	College Physics 1 **** Prerequisites: MATH R116***	4.0
PHYS R101L	College Physics 1 Laboratory **** Prerequisites: PHYS R101 or concurrent enrollment***	1.0
PHYS R121	Physics with Calculus I **** Prerequisites: MATH R120***	5.0

Total Required Major Units	**28**
Oxnard College General Education	29
Double-Counted Units	-(9)
Free Electives Required	+ 12
Total units required for the AA Degree	**60.0**