

BIOLOGICAL SCIENCES - ASSOCIATE IN SCIENCE

Plan Code: 2500

This Associate Degree will provide the student with an introductory education to this field of study, not necessarily career related, but ending with the Associate Degree or a partial lower division preparation for transfer to a Baccalaureate Degree in the biological sciences.

Program Student Learning Outcomes

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Assimilate information from various sources and apply critical thinking to form evidence-based conclusions (scientific method) to issues in the realm of biology, health, and as a consumer in society.
- Demonstrate an understanding of all levels of organismal biology such as morphological, physiological, and developmental.
- Demonstrate knowledge of the importance of the diversity of organisms on earth and their ecological and evolutionary relationships including human impact on other organisms (or the reciprocal) and ecosystems.

Program Requirements

This degree requires the completion of General Education coursework plus the following:

Code Number	Course Title	Units
REQUIRED COURSES		
CHEM 2 or CHEM 3	Elementary Chemistry Intro to Gen, Organic and Biochemistry	4.5
LEARN 11/11H or READ 84	Learning and Academic Strategies Analytical Reading	3
STAT 1/1H	Elementary Statistics	4
Subtotal Units		11.5-12
IN ADDITION, complete ONE Area of Emphasis below:		
Marine Science Emphasis		
Terrestrial and Sustainability Emphasis		
Health Science Emphasis		
Subtotal Units		15-23
Required Subtotal		26.5-35
Complete one of the following: ¹		19-39
LBCC General Education (Plan A) (https://lbcc-public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-a/)		
CSU GE Breadth (Plan B) (https://lbcc-public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-b/)		
IGETC Pattern (Plan C) (https://lbcc-public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-c/)		
Electives (as needed to reach 60 degree-applicable units) ²		
Minimum Degree Total		60

¹ Units for the major may be double-counted for LBCC GE, CSU GE, or IGETC; see counselor for limitations.

² Elective units from course(s) numbered 1-599, if needed, to reach 60 degree-applicable units.

Marine Science Emphasis

Code Number	Course Title	Units
BIO 11	Environmental Problems of Man	3
BIO 20/20H	Marine Biology	4
BIO 22	The Marine Environment	3
GEOL 2	General Geology, Physical	3
PGEOG 2	Weather and Climate	3
Subtotal Units		16

Terrestrial and Sustainability Emphasis

Code Number	Course Title	Units
BIO 5	Plant Biology	4
BIO 11	Environmental Problems of Man	3
BIO 30	Wildlife Biology	4
GEOL 1/1H	General Physical Geology	4.5
GEOG 10	Intro to Geographic Information Systems	3
PGEOG 2	Weather and Climate	3
Subtotal Units		21.5

Health Science Emphasis

Code Number	Course Title	Units
Complete NINE to FOURTEEN (9-14) units from the following:		
ANAT 1	Human Anatomy (4)	
ANAT 41	Anatomy & Physiology (5)	
BIO 2	General Microbiology (5)	
BIO 60	Human Biology (4)	
PHYSI 1	Human Physiology (5)	
IN ADDITION, complete SIX to NINE (6-9) units from the following:		
AH 60	Medical Terminology (3)	
BIO 25	Biology and Society (3)	
BIO 61	Introduction to Pathophysiology (3)	
COMM 25	Elements of Intercultural Communication (3)	
PSYCH 1/1H	Introduction to Psychology (3)	
Subtotal Units		15-23