

# NATURAL SCIENCES - GENERAL (A.S.)

## ASSOCIATE OF SCIENCE

The goal of the natural sciences associate of science degree is to provide students with a well-rounded introduction to the life and physical sciences. The degree program is designed to satisfy the curiosity of students interested in the natural world, facilitate advanced study in the sciences, or to supplement study of another field with a strong background in the concepts and methodologies of the natural 6 sciences.

## Program Requirements

Code Number	Course Title	Units
<b>Physical Science</b>		
Select at least 4 units of the following:		4.0
ASTR 102	Introductory Astronomy: Stars and the Universe (3)	
ASTR 103	Introductory Astronomy: The Solar System (3)	
ASTR 104	Life in the Universe (1)	
ASTR 105L	Observational Astronomy (3)	
ASTR 106	History of Astronomy (1)	
BTEC 120	Introduction to Biotechnology (4)	
CHEM 100	Introductory Chemistry (4)	
CHEM 101	Chemistry in Society (3)	
CHEM 101L	Chemistry in Society Lab	
CHEM 110	Elementary Chemistry (4)	
CHEM 111	General Chemistry (5)	
CHEM 112	General Chemistry (5)	
CHEM 211	Organic Chemistry (5)	
CHEM 212	Organic Chemistry (5)	
ESCI 104	Oceanography (3)	
ESCI 104L	Oceanography Laboratory (1)	
ESCI 106	Weather and Climate (3)	
ESCI 106L	Weather and Climate Laboratory (1)	
ESCI 110	Introduction To Earth Science (4)	
GEOG 101	Physical Geography (3)	
GEOG 101L	Physical Geography Laboratory (1)	
GEOG 103	Environmental Geography (3)	
GEOG 140	California Geography (3)	
GEOG 160	Field Studies in Geography (3)	
GEOL 100	Natural History Of Southern California (4)	
GEOL 101	Physical Geology (4)	
or GEOL 102 & 102L	Physical Geology Lecture and Physical Geology Laboratory	
GEOL 103	Environmental Geology Lecture (3)	
GEOL 103L	Environmental Geology Laboratory (1)	
GEOL 104	Environmental Geology (4)	
GEOL 105L	Introduction to Geoscience Field Methods (1)	
GEOL 106	Geology of the Solar System: Planets and Moons (3)	

GEOL 120	Geology Field Studies in Owens Valley and the Sierra Nevada Mountains (1)	
GEOL 201	Earth History (4)	
GEOL 204	Geology of the Western National Parks and Monuments (3)	
GEOL 207	Paleontology, Life of the Past (3)	
GEOL 208	The Age of the Dinosaurs (3)	
GEOL 209	Natural Disasters (3)	
PHYS 100	Elementary Physics (4)	
PHYS 101	General Physics (4)	
PHYS 102	General Physics (4)	
PHYS 201	Engineering Physics (4)	
PHYS 202	Engineering Physics (4)	
PHYS 203	Engineering Physics (4)	
PS 100	Physical Science Of Modern Technology (3)	
PS 112	Physical Science for Elementary School Teachers (3)	
<b>Biological Sciences</b>		
Select at least 4 units of the following:		4.0
A&P 120	Introduction to Human Anatomy and Physiology (4)	
A&P 150	Introduction to Human Anatomy (4)	
A&P 151	Introduction to Human Physiology (4)	
A&P 200	Human Anatomy (5)	
A&P 201	Human Physiology (5)	
ANTH 115	Physical Anthropology (3)	
ANTH 115L	Introduction to Physical Anthropology Lab (1)	
BIOL 105	Humans and the Environment (3)	
BIOL 115	Marine Biology (3)	
BIOL 120	Introduction To Biological Science (4)	
BIOL 200	Principles of Biology (5)	
BIOL 201	Principles of Biology (5)	
BIOL 202	Molecular Biology/Genetics (4)	
BOT 120	Introduction To Plant Science (4)	
MICR 200	Principles and Applications of Microbiology (5)	
PSYC 241	Introduction to Psychobiology	
ZOOL 120	Introduction to Animal Biology (4)	
<b>Mathematics</b>		
Select at least 3 units of the following:		3.0
ECON 210	Applied Introductory Statistics for Economics (4)	
MATH 104	Survey of Mathematics (4)	
MATH 105	Activity-Based Probability And Statistics for Elementary And Middle School Teachers (3)	
MATH 110A	Mathematics for Elementary Teachers (3)	
MATH 110B	Mathematics for Elementary Teachers (3)	
MATH 112	Elementary Statistics (3)	
or MATH 112S	Enhanced Elementary Statistics	
MATH 114	College Algebra (4)	
MATH 116	Calculus for Managerial, Biological and Social Sciences (4)	
MATH 140	Trigonometry (3)	

MATH 155	Precalculus (5)	
MATH 170	Analytic Geometry and Calculus I (4)	
MATH 190	Analytic Geometry and Calculus II (4)	
MATH 225	Calculus III (5)	
MATH 250	Linear Algebra and Differential Equations (5)	
PSYC 210	Elementary Statistics (4)	
and completion of another 7 units of science-related coursework from any section above for a combined total of at least 18 units of science-related coursework		7.0
<b>Total Units</b>		<b>18</b>

## ASSOCIATE OF SCIENCE DEGREE REQUIREMENTS

In order to qualify for an AS Degree in Natural Sciences - General, the following requirements must be met:

1. Completion of the AS degree general education and proficiency requirements;
2. Completion of a minimum of 60 degree-applicable units;
3. Choose at least 4 units from section A, at least 4 units from section B, and at least 3 units from section C;
4. Completion of another 7 units of science-related coursework from any section above for a combined total of at least 18 units of science-related coursework.

See Cerritos College graduation requirements