

Laney College

Science

Overview

College	Laney - Mathematics and Sciences
Originator	Amy Bohorquez
Award Type	A.S. Degree

Codes and Dates

State Approval Date	1/04/2018
Curriculum Committee Approval Date	10/21/2016
Board of Trustees Date	12/13/2016
Current Effective Date	1/22/2018
Program Control Number	36089
Top Code	4902.00 - Biological and Physical Sciences
CIP Code	30.0101: Biological and Physical Sciences.

Description

Science courses emphasize problem solving, critical thinking and synthesis of information. Students will practice laboratory safety, carry out experimental procedures, and identify possible sources of error. Students will learn to apply principles of scientific inquiry, differentiate a theory from a hypothesis, and differentiate fact from opinion in regard to sciences. Students will develop the connection of the relevance of science to everyday events and circumstances in a broad interdisciplinary context. For the Associate of Science, students must complete the General Education pattern and elective courses for an additional 40 units. As this degree alone may not be complete preparation for transfer, students wishing to continue at the UC or CSU system should meet with a counselor to develop a transfer plan which addresses all general education and lower-division transfer requirements.

Career Opportunities

This degree will help students transfer, focus on pre-allied health courses and develop basic skills in science.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze and critically evaluate scientific information
2. Synthesize multiple concepts, integrating and connecting scientific information
3. Properly use scientific equipment, following appropriate safety guidelines

Degree Requirements:

Select a minimum of 18 units from at least two disciplines

Credit Hours: (0 Required)

Biology Courses

BIOL 001A	General Biology	5
BIOL 001B	General Biology	5
BIOL 002	Human Anatomy	5
BIOL 003	Microbiology	5
BIOL 004	Human Physiology	5
BIOL 020A	Human Anatomy and Physiology	5
BIOL 020B	Human Anatomy and Physiology	5

Credit Hours: (0 Required)

Chemistry Courses

CHEM 001A	General Chemistry	5
CHEM 001B	General Chemistry	5
CHEM 030A	Introductory General Chemistry	4
CHEM 030B	Introductory Organic and Biochemistry	4

Credit Hours: (0 Required)*Mathematics Courses*

MATH 003A	Calculus I	5
MATH 003B	Calculus II	5
MATH 013	Introduction to Statistics	4

Credit Hours: (0 Required)*Physics Courses*

PHYS 003A	General Physics	5
PHYS 003B	General Physics	5
PHYS 004A	General Physics with Calculus	5
PHYS 004B	General Physics with Calculus	5
PHYS 004C	General Physics with Calculus	5

Credit Hours: (0 Required)

Total Major Units	18 - 20
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Credit Hours: (0 Required)

General Education:	19
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Credit Hours: (0 Required)

Electives:	21 - 23
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Credit Hours: (60 Required)

Total Major Units:	60
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Total: 60

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