

# LIBERAL ARTS AND SCIENCES: NATURAL SCIENCES



Pathway: Applied Sciences  
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Award Title	Academic Plan	Award Type	GE Units	Required Course Units	Major Elective Units	Major Units
Liberal Arts and Sciences: Natural Sciences	T018857C	A.A.	21*	18	-	18

At least 60 degree applicable units are required to earn an Associate degree.  
\*GE Units requirements may be fulfilled by completing any General Education Pattern; please consult with a counselor for more details.  
These programs are Financial Aid Eligible.

## PROGRAM OVERVIEW

This area of emphasis examines the physical universe, its life forms, and its natural phenomena. Emphasis is placed on students using the methodologies of science as an investigative tool. The Natural Sciences area of emphasis allows the students to take courses that MAY satisfy lower-division requirements with the fields of science including Biology, Chemistry, Allied Health fields, Nursing preparation, Health Science and related fields, Kinesiology, Pre-Med, Dental Hygiene and more.

Students planning for transfer are cautioned that this curriculum may not provide for the completion of lower division requirements for transfer. Students should consult with a counselor for specific information regarding an intended major if transferring to a four-year university is a goal.

## PROGRAM LEARNING OUTCOMES (PLOs)

Upon completion of the **Degree** program, students are able to:

- Apply scientific principles, theories, and/or models to explain or predict the behavior of natural physical phenomena.
- Apply scientific knowledge and reasoning to evaluate the human interaction with the natural world and identify major issues impacting society.

## LIBERAL ARTS AND SCIENCES: NATURAL SCIENCES

### Associate in Arts Degree

Major Units: 18

Requirements for the Associate in Arts degree in Liberal Arts and Sciences: Natural Sciences may be met by completing 18 units of Required Courses with a grade of "C" or better along with General Education units. Information on the General Education unit requirements may be found in the catalog under Graduation Requirements.

Degree Requirements in Natural Sciences:

- Complete 18 units of coursework from courses listed below.
- At least one science course have a lab.

† Course currently unavailable

## REQUIRED COURSES

UNITS

ANATOMY 001	Introduction to Human Anatomy	4
ANTHRO 101	Human Biological Evolution	3
ASTRON 001	Elementary Astronomy	3
ASTRON 002 †	Elementary Astronomy Lab	1
ASTRON 005	Fundamentals of Astronomy Lab	1
BIOLOGY 003	Introduction to Biology	4
BIOLOGY 006	General Biology I	5
BIOLOGY 007	General Biology II	5
BIOLOGY 036 †	Bioscience for Health Occupations	4
CHEM 051	Fundamentals of Chemistry I	5
CHEM 065 †	Introductory General Chemistry	4
CHEM 070	Introductory Organic and Biochemistry	4
CHEM 101	General Chemistry I	5
CHEM 102	General Chemistry II	5
CHEM 211	Organic Chemistry for Science Majors I	5
CHEM 212	Organic Chemistry for Science Majors II	5
CHEM 221	Biochemistry for Science Majors	5
CHEM T 111	Applied Chemistry I	5
CHEM T 121	Applied Chemistry II	5
ELECTRN 002	Introduction to Electronics	3
ENV SCI 001	The Human Environment: Physical Processes	3
GEOG 001	Physical Geography	3
GEOLOGY 001	Physical Geology	3
GEOLOGY 006	Physical Geology Laboratory	2
MICRO 001	Introductory Microbiology	5
MICRO 020	General Microbiology	4
PHYSIOL 001	Introduction to Human Physiology	4
PHYSICS 001	Mechanics of Solids	4
PHYSICS 002	Mechanics of Fluids, Heat, and Sound	4
PHYSICS 003	Electricity and magnetism	4
PHYSICS 004	Optics and Modern Physics	4
PHYSICS 006	General Physics I	4
PHYSICS 007	General Physics II	4
PHYSICS 012	Physics Fundamentals	3
PHYSICS 014	Physics Fundamentals Laboratory	1
PSYCH 002	Biological Psychology	3

NOTE: Lab courses for ASTRON 5 and GEOLOGY 6 cannot apply in this area unless the lecture courses that are prerequisite or co-requisite to the lab courses are also taken.

TRANSFER—Students interested in transferring to a four-year college or university should visit the University Transfer Center or meet with a counselor to select appropriate transferable courses.

## USEFUL LATTC LINKS:

College Catalog, Class Schedule & more: <http://www.lattc.edu/academics>  
Financial Aid Office: <http://www.lattc.edu/services/financial-aid>  
Counseling Services & Support: <http://www.lattc.edu/services/support>  
Applied Sciences Pathway: <http://www.lattc.edu/academics/pathways/ap>

To register: <http://www.lattc.edu/student-guides/new-student-guide>

For additional information consult a LATTC college counselor.