

LIBERAL ARTS AND SCIENCES: NATURAL SCIENCES



| Award Title | Award Type | GE Units | Required Course Units | Major Elective Units | Major Units |
|---|------------|----------|-----------------------|----------------------|-------------|
| Liberal Arts and Sciences: Natural Sciences | A.A. | 21 | 18 | - | 18 |
| At least 60 degree applicable units are required to earn an Associate degree. | | | | | |

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.

Degree Requirements in Natural Sciences:

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

PROGRAM LEARNING OUTCOMES (PLOs)

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

1. Apply scientific principles, theories, and/or models to explain or predict the behavior of natural physical phenomena.
2. 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.

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 |

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.

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.

USEFUL LATTTC LINKS:

College Catalog: <http://college.latttc.edu/catalog/>
Financial Aid Office: <http://college.latttc.edu/financialaid/>
Counseling Department: <http://college.latttc.edu/counseling/>
General Education Information: <http://college.latttc.edu/catalog>

You can register in these classes by logging on to the Student Information System at <http://college.latttc.edu/student/new-students/register-now/>

For additional information consult a LATTTC college counselor.

† Course currently unavailable