## LIBERAL ARTS \& SCIENCES: EMPHASIS IN MATHEMATICS, PHYSICAL AND NATURAL SCIENCES

## PROGRAM OVERVIEW

This area of emphasis offers a broad and interdisciplinary foundation in the sciences necessary for continued training at the upper division (or advanced) level for many bachelor's degree programs in the natural sciences including biology, chemistry, geology, mathematics, physics, and many others. It is a starting point for students who are preparing for careers in business, industry, medicine, health sciences, education, and government, where scientific and technical skills are in great demand.

PLEASE NOTE: The courses that universities and colleges require for transfer vary. When selecting courses for transfer purposes, students should consult with Counseling Services to determine the particular transfer requirements of specific transfer institutions.

## REQUIREMENTS for the AA DEGREE

To qualify for this degree, you must meet these requirements:

- Minimum of 60 degree applicable units
- Minimum 2.0 GPA
- Complete general education requirements with one of the following GE patterns
- LACCD GE pattern
- CSU GE
- IGETC pattern
- Complete a minimum of 18 units from area of emphasis coursework
- Courses must be completed with a grade of "C" or better


## PROGRAM LEARNING OUTCOMES (PLO's)

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 \& SCIENCES: EMPHASIS IN
MATHEMATICS, PHYSICAL AND NATURAL SCIENCES
Associate in Arts Degree
Major Units: 18

## COURSE REQUIREMENTS

Complete 18 units with a minimum of $\mathbf{3}$ units from each of the following categories listed below:

## LIST A: LIFE SCIENCES:

| ANATOMY 001 | Human Anatomy | 4 |
| :--- | :--- | :--- |
| ANTHRO 101 | Physical Anthropology | 3 |
| BIOLOGY 003 | Introduction to Biology | 4 |
| BIOLOGY 005 | Introduction to Human Biology | 4 |
| BIOLOGY 006 | General Biology I w/Lab | 5 |
| BIOLOGY 007 | General Biology II w/Lab | 5 |
| MICRO 001 | Introductory Microbiology w/ Lab | 5 |
| MICRO 020 | General Microbiology w/Lab | 4 |
| PHYSIOL 001 | Introduction to Human Physiology | 4 |
| PSYCH 002 | Biological Psychology | 3 |

ANTHRO 101 Physical Anthropology 3
BIOLOGY 003 Introduction to Biology 4
BIOLOGY 005 Introduction to Human Biology 4
BIOLOGY 006 General Biology I w/Lab 5
BIOLOGY 007 General Biology II w/Lab 5
MICRO 001 Introductory Microbiology w/ Lab 5
MICRO $020 \quad$ General Microbiology w/Lab 4
PHYSIOL 001 Introduction to Human Physiology 4
PSYCH 002 Biological Psychology 3

