

LIBERAL ARTS WITH EMPHASIS IN NATURAL SCIENCES

A.A. DEGREE

Description

The **Liberal Arts AA** is designed for students who desire a broad knowledge of liberal arts and sciences plus additional coursework in an "Area of Emphasis". 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.

LIBERAL ARTS AA DEGREE

College of Alameda local GE Curriculum: **19**
(Minimum units necessary to complete College of Alameda local GE Curriculum)

Areas of Emphasis: **18**

- 18 units required from one Area of Emphasis listed below.
Areas of emphasis include:
 - (1) Arts and Humanities**
 - (2) Social and Behavioral Sciences**
 - (3) Natural Sciences**
- Courses selected can be used to also fulfill GE area.

Electives and Other Requirements: **23**
(Note: Electives and other requirements may be necessary to total 60 overall units required for the Associate Degree.)

Total Required Units: **60**

LIBERAL ARTS WITH EMPHASIS IN NATURAL SCIENCES

These courses emphasize the natural sciences which examine the physical universe, its life forms and its natural phenomena. Students will be able to demonstrate an understanding of the methodologies of science as investigative tools. Students will also examine the influence that the acquisition of scientific knowledge has on the development of the world's civilizations. Students must complete 18 units from at least two of the following disciplines with a grade of "C" or better: Courses from Anthropology, Astronomy, Biology, Chemistry, Geography (excluding cultural studies), Geology or Physics.

Career Opportunities

This curriculum is intended to prepare student for transfer to four year institutions with the benefit of introductory course work in arts and humanities.

Program Learning Outcomes

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

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

Degree Requirements:

Select 18 units from at least two discipline areas:

Credit Hours: (18 Required)

Degree Major Requirements:

| | | |
|-----------|--|---|
| ANTHR001 | Introduction to Physical Anthropology | 3 |
| ANTHR001L | Introduction to Physical Anthropology Laboratory | 1 |
| ANTHR002 | Introduction To Archaeology and Prehistory | 3 |
| ASTR 1 | Introduction to Astronomy | 3 |
| BIOL001A | General Biology | 5 |
| BIOL001B | General Biology | 5 |
| BIOL 2 | Human Anatomy | 5 |
| BIOL 4 | Human Physiology | 5 |
| BIOL010 | Introduction to Biology | 4 |
| BIOL 11 | Principles of Biology | 3 |
| BIOL 26 | Human Biology | 3 |
| BIOL031 | Nutrition | 4 |
| CHEM001A | General Chemistry | 5 |
| CHEM001B | General Chemistry | 5 |
| CHEM030A | Introductory General Chemistry | 4 |
| CHEM030B | Introductory Organic and Biochemistry | 4 |
| CHEM50 | Beginning Chemistry | 4 |
| GEOG001 | Physical Geography | 3 |
| GEOG001L | physical Geography Laboratory | 1 |
| GEOL010 | Introduction to Geology | 3 |
| PHYS004A | General Physics with Calculus | 5 |
| PHYS 4B | General Physics with Calculus | 5 |
| PHYS 4C | General Physics with Calculus | 5 |
| PHYS010 | Introduction to Physics | 4 |

Total: 18

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ASSOCIATE IN ARTS DEGREE IN STUDIO ARTS FOR TRANSFER

AA-T DEGREE

Description

The Associate in Arts in Studio Arts for Transfer Degree, (AA-T Studio Arts) is designed to prepare students for a seamless transfer with junior status and priority admission to their local CSU campus to a program or major in Studio Arts or similar major for completion of a baccalaureate degree.

Students are required to complete:

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
 - (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtainment of a minimum grade point average of 2.0. Students must earn a C or better in all courses required for the major or area of emphasis.
- No more than 60 semester units are required.

The Associate in Arts in Studio Arts for Transfer Degree, (AA-T Studio Arts) will also assist Studio Arts major students to transfer to a U.C. or other baccalaureate institutions. Students are advised to consult with a counselor to verify transfer requirements.

Career Opportunities

This program prepares students to transfer to Art majors in four-year institutions, leading to careers in teaching or private sector employment.

Program Learning Outcomes

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

1. Write a visual analysis/ critique of their own and others' art on both form and content, and its relation to a historical and global context.
2. Produce artworks in various media reflecting an understanding of line, shape, value, texture, space, color, scale, proportion, balance, mood, movement, mass, and emphasis.
3. Assemble a portfolio of strong drawings, painting, sculptures or digital media that demonstrate skill and understanding of techniques in various media.

Degree Requirements:

| Core Curriculum | | Credit Hours: (0 Required) |
|------------------------|---|-----------------------------------|
| ART003 | History of Western Art: Renaissance to Contemporary Art | 3 |
| ART046 | 2-D Visual Design | 3 |

| | | |
|--------|---------------------------------|---|
| ART047 | 3-D Visual Design | 3 |
| ART020 | Beginning Drawing & Composition | 3 |

Art History: Select one course (3 units)**Credit Hours:** (0 Required)

| | | |
|--------|---|---|
| ART002 | History of Western Art: Prehistoric Through the Middle Ages | 3 |
| ART004 | History of Modern Art (1800 to Present) | 3 |
| ART005 | History of Asian Art (Past to Present) | 3 |

Studio Art: Select three courses (9 units)**Credit Hours:** (0 Required)

| | | |
|-----------|--|---|
| ART040 | Color Dynamics: The Interaction of Color | 3 |
| ART050 | Beginning Painting | 3 |
| ART080 | Beginning Ceramics | 3 |
| ART100 | Beginning Printmaking | 3 |
| ART165 | Beginning Figure Sculpture | 3 |
| ART176 | Beginning Sculpture | 3 |
| ART022 or | Intermediate Drawing and Composition | 3 |
| ART137 | Beginning Figure Drawing and Composition | 3 |

CSU and IGTEC requirements**Credit Hours:** (0 Required)

37 - 39

Unit Calculation**Credit Hours:** (60 Required)**Total: 60**

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SCIENCE

A.S. DEGREE

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

Degree Requirements:

Select at least two courses from at least two of the following areas.

Credit Hours: (20 Required)

Total 20 units

Biology Courses

| | | |
|----------|------------------------------|---|
| BIOL001A | General Biology | 5 |
| BIOL001B | General Biology | 5 |
| BIOL002 | Human Anatomy | 5 |
| BIOL003 | Microbiology | 5 |
| BIOL004 | Human Physiology | 5 |
| BIOL020A | Human Anatomy and Physiology | 5 |
| BIOL020B | Human Anatomy and Physiology | 5 |

Chemistry Courses

| | | |
|----------|--------------------------------|---|
| CHEM001A | General Chemistry | 5 |
| CHEM001B | General Chemistry | 5 |
| CHEM030A | Introductory General Chemistry | 4 |

Mathematics Courses

| | | |
|----------|----------------------------|---|
| MATH003A | Calculus I | 5 |
| MATH003B | Calculus II | 5 |
| MATH013 | Introduction to Statistics | 4 |

Physics Courses

| | | |
|----------|-------------------------------|---|
| PHYS003A | General Physics | 5 |
| PHYS003B | General Physics | 5 |
| PHYS004A | General Physics with Calculus | 5 |
| PHYS004B | General Physics with Calculus | 5 |
| PHYS004C | General Physics with Calculus | 5 |

Recommendation for General Science students**Credit Hours: (20 Required)***Select 20 units from the following courses*

| | | |
|----------|-------------------------------|---|
| BIOL001A | General Biology | 5 |
| BIOL001B | General Biology | 5 |
| CHEM001A | General Chemistry | 5 |
| CHEM001B | General Chemistry | 5 |
| MATH003A | Calculus I | 5 |
| MATH003B | Calculus II | 5 |
| PHYS003A | General Physics | 5 |
| PHYS003B | General Physics | 5 |
| PHYS004A | General Physics with Calculus | 5 |
| PHYS004B | General Physics with Calculus | 5 |
| PHYS004C | General Physics with Calculus | 5 |

*or***Recommendation for Pre-Allied Health Students****Credit Hours: (20 Required)***Select 20 units from the following courses*

| | | |
|--------------|--------------------------------|---|
| BIOL002 and | Human Anatomy | 5 |
| BIOL004 or | Human Physiology | 5 |
| BIOL020A and | Human Anatomy and Physiology | 5 |
| BIOL020B | Human Anatomy and Physiology | 5 |
| BIOL003 | Microbiology | 5 |
| CHEM001A | General Chemistry | 5 |
| CHEM030A | Introductory General Chemistry | 4 |
| MATH013 | Introduction to Statistics | 4 |

Total: 60

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