

# LIBERAL ARTS: EMPHASIS IN SCIENCE, ASSOCIATE IN ARTS DEGREE

**Banner Code:** 2\_AA\_LASCI

**Control Number:** 19438

**Financial Aid Eligible**

This program is designed for students who desire a broad knowledge of liberal arts and sciences, plus additional course work in an "Area of Emphasis." This program would be an ideal choice for students planning on transferring to the California State University (CSU) or University of California (UC), as the student may satisfy their general education requirements plus focus on transferable course work relating to baccalaureate majors at these institutions. Because admission and major preparation requirements vary at each transfer institution, courses used to fulfill requirements for an emphasis should be selected with the assistance of GWC Counselor.

## Program Level Learning Outcomes

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

1. Develop an interdisciplinary perspective on the natural world by applying the scientific method to scientific problems.
2. Use a variety of experimental and analytical techniques.
3. Use a variety of data collection and display methods.

Review Graduation Requirements (<https://catalog.cccd.edu/golden-west/graduation-requirements/associate-degree/>) and General Education (<https://catalog.cccd.edu/golden-west/general-education/>).

| Course  | Title                                  | Units |
|---|--|-------|
| <b>Choose any combination of the following list to total at least 18 units:<sup>1</sup></b> |  |       |
| ANTH G185   | Physical Anthropology                  | 3     |
| ANTH G185L  | Physical Anthropology Lab              | 1     |
| ASTR G100   | Introduction to Astronomy              | 3     |
| ASTR G100L  | Introduction to Astronomy Lab          | 1     |
| BIOL G100   | Introduction to Biology                | 4     |
| BIOL G101   | The Biology of Food and Cooking        | 3     |
| BIOL G104   | Marine Life                            | 3     |
| BIOL G104L  | Marine Life Laboratory                 | 1     |
| BIOL G110   | Ecology and Field Biology              | 3     |
| BIOL G120   | Health and Disease                     | 3     |
| BIOL G186   | Diversity of Organisms                 | 5     |
| BIOL G219   | Human Anatomy Discussion               | 1     |
| BIOL G221   | Introduction to Anatomy and Physiology | 4     |
| BIOL G160   | Physiology and Disease Mechanisms      | 3     |
| BIOL G225   | Human Physiology                       | 4     |
| BIOL G180   | Cell and Molecular Biology             | 5     |
| BIOL G182   | Zoology                                | 4     |
| BIOL G183   | Botany                                 | 4     |
| BIOL G200   | Pharmacology - Medications and Drugs   | 3     |
| BIOL G210   | General Microbiology                   | 5     |

| Course  | Title  | Units        |
|---|--|--------------|
| CHEM G110   | Introduction To Chemistry                      | 5            |
| CHEM G130   | Preparation for General Chemistry              | 4            |
| CHEM G180   | General Chemistry A                            | 5            |
| CHEM G185   | General Chemistry B                            | 5            |
| CHEM G220   | Organic Chemistry A                            | 5            |
| CHEM G225   | Organic Chemistry B                            | 5            |
| GEOG G130   | Introduction to Weather and Climate            | 3            |
| GEOG G180   | Physical Geography                             | 3            |
| GEOG G180L  | Physical Geography Laboratory                  | 1            |
| GEOL G110   | Physical Geology                               | 4            |
| GEOL G120   | Historical Geology                             | 4            |
| GEOL G105   | General Geology                                | 3            |
| GEOL G106   | Earth Science For Teachers                     | 4            |
| PHSC G100   | Introductory Physical Science                  | 4            |
| PHYS G110   | Conceptual Physics                             | 3            |
| PHYS G111   | Conceptual Physics Lab                         | 1            |
| PHYS G120   | Algebra Based Physics: Mechanics               | 4            |
| PHYS G125   | Algebra Based Physics: Electricity/ Magnetism  | 4            |
| PHYS G185   | Calculus Based Physics: Mechanics              | 4            |
| PHYS G280   | Calculus Based Physics: Electricity/ Magnetism | 4            |
| PHYS G285   | Calculus Based Physics: Modern                 | 4            |
| PSYC G250   | Psychobiology                                  | 3            |
| MATH  | One class at level Math G115 or above          |              |
| BIOL G220   | Human Anatomy                                  | 4            |
| <b>Major Total</b>                                  |  | <b>18</b>    |
| <b>GE Pattern (Local, CSU GE-Breadth, or IGETC)</b> |  | <b>18-39</b> |
| <b>Total Units</b>                                  |  | <b>60</b>    |

<sup>1</sup> Must include three courses that include a laboratory. Students should check with a counselor to see which courses will transfer to their target university.