

EMPHASIS IN SCIENCE, ASSOCIATE IN ARTS DEGREE

Banner code: 2_AA_LASCI

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. Demonstrate a strong factual framework of knowledge about the natural world.
2. Use critical thinking skills.
3. Use a variety of experimental and analytical techniques.
4. Use a variety of data collection and display methods.

Associate Degree Graduation Requirements

(See GWC website (<http://www.goldenwestcollege.edu>) for the most up-to-date information on Associate Degree Requirements (<https://catalog.cccd.edu/golden-west/general-education/associate-degree/>).

1. Completion of General Education Requirements by one of the following methods:
 - a. Completion of a minimum of 18 units as listed under Areas A through E, including the Cultural Diversity Requirement.
 - b. Completion of a minimum of 39 units of CSU General Education requirements. Students who complete this pattern are also eligible to receive the Certificate of Achievement in CSU General Education Breadth (<https://catalog.cccd.edu/golden-west/general-education/csu-ge/>).
 - c. Completion of a minimum of 34 (UC) or 37 (CSU) units of Intersegmental General Education Transfer Curriculum (IGETC) requirements. Students who complete this pattern are also eligible to receive the Certificate of Achievement in IGETC (<https://catalog.cccd.edu/golden-west/general-education/igetc/>).
2. Completion of a Major or Area of Emphasis—a minimum of 18 units.
3. Completion of additional elective units to a total of 60 units.
4. 2.0 overall Grade Point Average at GWC and 2.0 overall Grade Point Average for all colleges attended.
5. At least 12 units completed at GWC.

Students should consult a GWC counselor in order to select the best pathway to meet their educational goals. For students who intend to transfer, the choice of general education will be specific to both their major and transfer institution.

Course	Title	Units
Choose any combination of the following list to total at least 18 units:¹		
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 G104	Marine Life	3
BIOL G104L	Marine Life Laboratory	1
BIOL G110	Ecology And Field Biology	3
BIOL G120	Health and Disease	3
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
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 G180	Introduction To Geography: Physical Geography	3
GEOL G110	Physical 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
Major Total		18
GE Pattern (Local, CSU GE-Breadth, or IGETC)		18-39
Total Units		60

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