

LIBERAL ARTS: EMPHASIS IN COMPUTER SCIENCE AND TECHNOLOGY, ASSOCIATE IN ARTS DEGREE

Banner Code: 2_AA_LACST

Control Number: 35931

Financial Aid Eligible

This program is designed for students who wish 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. Students completing this degree will need to complete a minimum of 18 units in the area of emphasis, and complete a general education pattern that matches the student's career and educational goals. Students may select either the local Golden West College General Education pattern, the CSU-GE Breadth pattern, or the IGETC pattern.

Program Level Learning Outcomes

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

1. Apply computer science and software development fundamentals to produce computing-based solutions.
2. Evaluate various types of technology.
3. Utilize technology to design art, computer, or database projects.

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
Select at least 18 units, including two or more disciplines, of the following:		
AUTO G101	Introduction to Automotive Technology	3
AUTO G110	Engine Repair	5
CS G102	Computer Software Development, Introduction	4
CS G130	Survey Of Computer Science/Information Technology	4
CS G131	Python Programming I	3
CS G153	Java Programming 1	3
CS G154	Java Programming 2	3
CS G175	C++ Programming 1	3
CS G179	C++ Programming, Advanced	4
CS G189	C++ Programming 2	3
CS G231	Python Programming 2	3
CS G242	Computer Architecture and Organization	3

Course	Title	Units
CS G262	Discrete Structures	3
DART G135	Digital Illustration: Adobe Illustrator	3
DART G150	Digital Image Editing I: Beginning Photoshop	3
DART G160	Interaction Design for Mobile	3
DART G178	Web Design I	3
DART G180	2D & 3D Motion Graphics for Web and User Interface	3
DRAF G101	Basic Computer Aided Design Drafting	3
DRAF G105	Basic Engineering Drafting I, Computer Aided Drafting	3
DRAF G110	Basic Engineering Drafting II, Computer Aided Drafting	3
ENGR G101	Introduction to Engineering and Technology	2
ENGR G220	Programming and Problem-Solving in MATLAB	4
ENGR G280	Statics	3
ENGR G285	Engineering Circuits	4
LIBR G110	Introduction to College Research	1
MATH G140	Business Calculus	4-6
or MATH G140S	Business Calculus with Support	
MATH G180	Calculus 1	4
MATH G185	Calculus 2	4
Select no more than one course from the following:		
BIOL G100	Introduction to Biology	4
CHEM G180	General Chemistry A	5
CHEM G185	General Chemistry B	5
PHYS G185	Calculus Based Physics: Mechanics	4
PHYS G280	Calculus Based Physics: Electricity/Magnetism	4
PHYS G285	Calculus Based Physics: Modern	4
Major Total		18
GE Pattern (Local, CSU GE-Breadth, or IGETC)		18-39
Total Units		60