

PROGRAM OF STUDY

Liberal Arts and Sciences: Mathematics and Science Associate in Arts

The Liberal Arts and Sciences major is designed for students planning to transfer to either the California State University or University of California. To earn the Associate in Arts degree with a Liberal Arts and Sciences major, students must complete either the Intersegmental General Education Transfer Curriculum (IGETC) UC or CSU option or the CSU General Education Certification pattern and one of the three areas of emphasis. The areas of emphasis are: Mathematics and Science, Social and Behavioral Sciences or Humanities. The area of emphasis requires a minimum of 18 units with a grade of "C" or better in all courses in the area of emphasis. The courses identified for each area of emphasis fulfill major preparation requirements as demonstrated through ASSIST articulation. A minimum of six units must be within a single discipline and in the case of the Mathematics and Science area of emphasis at least one mathematics course must be completed. Select courses based on ASSIST data for major preparation articulation with selected transfer institutions. Consult a counselor for specific information regarding the intended major at the college the student is choosing. Courses used to complete a student's area of emphasis can double count for general education just as they may for any other major. Although the associate degree recognizes the completion of lower division general education requirements, it does not guarantee admission to a specific campus in the CSU or UC system, nor does it guarantee admission to a specific major. Some majors and schools require a higher GPA than is necessary for the associate degree. Students should meet with a counselor to determine the lower division major preparation needed for their intended transfer school. To meet requirements for the CSU General Education Breadth associate degree program, students must: "Complete CSU General Education Breadth for Certification, including the American Institutions and Diversity requirements. Consult with the Counseling Office for the appropriate list of applicable courses. "Earn a "C" or "CR" grade or higher in all CSU Breadth course. "Complete a minimum of 60 degree applicable CSU transferable semester units. "Earn a cumulative G.P.A. of 2.0 in all college coursework completed. "Meet College of the Canyons residency requirements for graduation. "Note: No Physical Education and/or Wellness courses are required. To meet requirements for the IGETC - CSU associate degree program, students must: "Complete IGETC - CSU Certification pattern. Consult with the Counseling Office for the appropriate list of applicable courses. "Meet the American Institutions and Diversity requirements. "Earn a "C" or "CR" grade or higher in all IGETC courses. "Complete a minimum of 60 degree applicable CSU transferable semester units. "Earn a cumulative G.P.A. of 2.0 in all college coursework completed. "Meet College of the Canyons residency requirements for graduation. "Note: No Physical Education and/or Wellness courses are required. To meet requirements for the IGETC - UC associate degree program, students must: "Complete IGETC - UC Certification pattern. "Meet the American Institutions and Diversity requirements. "Earn a "C" or "CR" grade or higher in all IGETC courses. "Complete a minimum of 60 degree applicable UC transferable semester units. "Earn a cumulative G.P.A. of 2.0 in all college coursework completed. "Meet College of the Canyons residency requirements for graduation. "Note: No Physical Education and/or Wellness course

Student Learning Outcome:

Analyze concepts from the liberal arts and sciences.

Program Requirements:

Mathematics and Science Emphasis-Minimum 18 units. Select six units from a single discipline and at least one mathematics course. (Major Codes: CSU-4148.LSCSUM.AA, CSU IGETC-4149.LSIGCM.AA, UC IGETC - 4150.LSIGUM.AA.)		Units
BIOSCI 106	Organismal & Environmental Biology	4 - 0
BIOSCI 107	Molecular & Cellular Biology	4 - 0
	or	
BIOSCI 107H	Molecular and Cellular Biology - Honors	4 - 0
BIOSCI 115	General Zoology	4 - 0
BIOSCI 116	General Botany	4 - 0
CHEM 151	Preparatory General Chemistry	4 - 0
	or	
CHEM 151H	Preparatory General Chemistry- Honors	4 - 0
CHEM 201	General Chemistry I	6 - 0
	or	
CHEM 201H	General Chemistry I - Honors	6 - 0
CHEM 202	General Chemistry II	5 - 0
CHEM 255	Organic Chemistry I	5 - 0
CHEM 256	Organic Chemistry II	5 - 0
GEOG 101	Physical Geography	3 - 0
	or	
GEOG 101H	Physical Geography - Honors	3 - 0

GEOG 101L	Physical Geography Lab	1 - 0
GEOG 101	Physical Geology	3 - 0
GEOG 101L	Physical Geology Lab	1 - 0
MATH 211	Calculus I	5 - 0
MATH 212	Calculus II	5 - 0
MATH 213	Calculus III	5 - 0
MATH 214	Linear Algebra	3 - 0
MATH 215	Differential Equations	3 - 0
PHYSIC 110	General Physics I	4 - 0
PHYSIC 111	General Physics II	4 - 0
PHYSIC 220	Physics for Scientists and Engineers: Mechanics of Solids and Fluids	4 - 0
PHYSIC 221	Physics for Scientists and Engineers: Electricity & Magnetism	4 - 0
PHYSIC 222	Physics for Scientist & Engineers: Wave Motion, Heat, Optics & Modern Physics	4 - 0

Total Units

18

PID 227