

LIBERAL ARTS ASSOCIATE IN ARTS DEGREE WITH AN AREA OF EMPHASIS IN MATH AND SCIENCE

Division: Counseling

PROGRAM CODE: 1A18524

Financial Aid Eligible

The **Liberal Arts Associate in Arts Degree with an Area of Emphasis in Math and Science** emphasizes the natural sciences which examine the physical universe, its life forms, and its natural phenomena. Courses in Math emphasize the development of mathematical and quantitative reasoning skills beyond the level of intermediate algebra. 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 civilization. Students will also examine the influence that the acquisition of scientific knowledge has on the developmental of the world's civilizations. To earn this Associate Degree students must complete: 1) All major course requirements with a grade of C or better; 2) Cypress College Native General Education requirements; California State University General Education Breadth requirements (CSU GE Breadth) or IGETC General Education requirements; 3) Fulfillment of all graduation requirements, to include local requirements of a minimum of one (1) unit of coursework approved for Physical Activity and Health and three (3) units of coursework approved for Social Justice, Equity and Sustainability 4) any elective courses to complete a minimum of 60 units; and, have a minimum GPA of 2.0. This degree requires a total of 18 units in the major, in addition to general graduation requirements.

Liberal Arts Degree: Math and Science Emphasis

The Math and Science option under Liberal Arts is an ideal choice for students planning on transferring to the California State University (CSU) or University of California (UC). Students are able to satisfy both their transfer institution's general education requirements, plus focus on transfer major preparation course work required by the four-year university. The Area of Emphasis listed below includes courses that transfer to CSU and/or UC. **Disclaimer: Every effort has been made to ensure the information below is accurate and timely. However, this information is unofficial and should be checked against the official information found on the ASSIST website @ www.assist.org**

Code	Title	Units
Select 18 or more units from at least 2 discipline areas:		
ANTH 101 C	Biological Anthropology ¹	3
or ANTH 101HC	Honors Biological Anthropology	
ANTH 101LC	Biological Anthropology Lab ¹	1
ANTH 210 C	Intro to Forensic Anthropology ¹	3
ASTR 116 C	Introduction to Astronomy ¹	3
or ASTR 116HC	Honors Intro to Astronomy	
ASTR 117 C	Astronomy Lab ¹	1

or ASTR 117HC	Honors Astronomy Lab	
BIOL 101 C	General Biology ¹	4
or BIOL 101HC	Honors General Biology	
BIOL 102 C	Human Biology ¹	3
BIOL 103 C	Environmental Science ¹	3
PHS 107 C	Nutrition and World Food Issue	3
BIOL 122 C	Marine Biology ¹	4
BIOL 135AC	Prin 1 - Cell & Molecular Bio.	5
BIOL 135BC	Prin. 2: Organismal Biology	5
BIOL 160 C	Integrated Medical Science ¹	3
BIOL 174 C		
BIOL 175 C		
BIOL 210 C	Anatomy and Physiology ¹	5
BIOL 220 C	Medical Microbiology ¹	4
BIOL 231 C	General Human Anatomy ¹	4
BIOL 241 C	General Human Physiology ¹	4
BIOL 276 C	¹	4
BIOL 277 C	Genetics ¹	3
BIOL 278 C	Molecular Biology ¹	4
CHEM 100 C	Chemistry for Daily Life ¹	4
CHEM 101 C	Chem for Health Sci Majors I ¹	4.5
CHEM 103 C	Chemistry and Society ¹	3
CHEM 104 C	Physical Science for Teachers ¹	4
CHEM 107 C	Preparation for General Chem ¹	5
CHEM 111AC	General Chemistry I ¹	5
CHEM 111BC	General Chemistry II ¹	5
CHEM 201 C	Chem for Health Sci Majors II ¹	4.5
GEOG 102 C	Physical Geography ¹	3
GEOG 102LC	Physical Geography - Lab ¹	1
GEOG 140 C	Weather and Climate ¹	3
GEOL 100 C	Physical Geology ¹	3
or GEOL 100HC	Honors Physical Geology	
GEOL 101 C	Physical Geology Laboratory ¹	1
GEOL 103 C	Historical Geology ¹	4
GEOL 104 C	Geology of National Parks	3
GEOL 105 C	Earth Science for Teachers	4
GEOL 115 C	Physical Geology Field Lab ¹	1
GEOL 120 C	Geology of California ¹	3
GEOL 125 C	Natural Disasters ¹	3
GEOL 130 C	Introduction to Oceanography ¹	3
GEOL 131 C	Introduction to Oceanography Lab ¹	1
GEOL 190 C	Environmental Geology ¹	3
MATH 100 C	Liberal Arts Mathematics ¹	3
MATH 110 C	Math for Prospective Teachers ¹	4
or MATH 110PC	Math for Prospective Teachers	
MATH 115 C	Finite Mathematics ¹	4
or MATH 115PC	Finite Mathematics	
MATH 120 C	Intro Probability Statistics ¹	4
or MATH 120PC	Intro to Probability and Stats	
MATH 130 C	Survey of Calculus ¹	4
or MATH 130PC	Survey of Calculus	
MATH 141 C	College Algebra ¹	4

or MATH 141PC College Algebra

MATH 142 C	Trigonometry	4
MATH 150AC	Calculus I ¹	4
MATH 150BC	Calculus II ¹	4
MATH 220 C	Intro. to Data Science with R	4
MATH 250AC	Multivariable Calculus ¹	4
MATH 250BC	Linear Algebra and Differential Equations ¹	5
PHSC 104 C	Physical Science for Teachers ¹	4
PHYS 130 C	Elementary Physics ¹	4
PHYS 201 C	College Physics I ¹	4
PHYS 202 C	College Physics II ¹	4
PHYS 210 C	Physics for Life Sciences I ¹	4
PHYS 211 C	Physics for Life Sciences II ¹	4
PHYS 221 C	General Physics I ¹	4
PHYS 222 C	General Physics II ¹	4
PHYS 223 C	General Physics III ¹	4
PSY 161 C	Probability & Stats-Social Sci ¹	4
or PSY 161HC	Honors Prob Stats-Soc Sci	
PSY 221 C	The Brain and Behavior	3
SOC 161 C	Probability & Stats-Social Sci ¹	4
or SOC 161HC	Honors Prob & Stats-Soc Sci	
TOTAL HOURS		18

¹ This course is transferable to UC

SPECIAL NOTE: This degree is an Associate Degree designed for transfer students; **however, it does not qualify as an Associate Degree for Transfer (ADT)** for CSU priority admission consideration. Please see a counselor for more information on differences in degree options offered at Cypress College for transfer students.

Program Student Learning Outcomes:

OUTCOME 1: Develop a reasoned solution to a problem. Demonstrate the ability to use the attained knowledge foundation to illustrate concepts and compare examples. Apply scientific method to solve practical problems in the sciences.

https://www.curricunet.com/Cypress/reports/program_report.cfm?programs_id=1625