

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

Division: Counseling

PROGRAM CODE: 1C18524

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, and
4. any elective courses to complete a minimum of 60 units; and, have a minimum GPA of 2.0.

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 (<http://www.assist.org>)

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Code	Title	Units
<i>Select 18 or more units from at least 2 discipline areas:</i>		
ANTH 101 C	Biological Anthropology ¹	3
	or ANTH 101HC Honors Biological Anthropology	
ANTH 101LC	Biological Anthropology Lab ¹	1
ANTH 210 C	Introduction to Forensic Anthropology ¹	3
ASTR 116 C	Introduction to Astronomy ¹	3
	or ASTR 116HC Honors Introduction 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
BIOL 107 C	Nutrition and World Food Issues ¹	3
BIOL 122 C	Marine Biology ¹	4
BIOL 160 C	Integrated Medical Science ¹	3
BIOL 174 C	Biology of Cells and Tissues ¹	4
BIOL 175 C	Evolution and Biodiversity ¹	4
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	Ecology and Physiology 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	Chemistry for Health Science Majors I ¹	4.5
CHEM 103 C	Chemistry and Society ¹	3
CHEM 104 C	Physical Science for Teachers (same as PHSC 104 C) ¹	4
CHEM 107 C	Preparation for General Chemistry ¹	5
CHEM 111AC	General Chemistry I ¹	5
CHEM 111BC	General Chemistry II ¹	5
CHEM 201 C	Chemistry for Health Science 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 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 (same as MATH 110 C)		
MATH 115 C	Finite Mathematics ¹	4
or MATH 115PC Finite Mathematics (same as MATH 115 C)		
MATH 120 C	Introduction to Probability and Statistics ¹	4
or MATH 120PC Introduction to Probability and Statistics (same as MATH 120 C)		
MATH 130 C	Survey of Calculus ¹	4
or MATH 130PC Survey of Calculus (same as MATH 130 C)		
MATH 141 C	College Algebra ¹	4
or MATH 141PC College Algebra (same as MATH 141 C)		
MATH 142 C	Trigonometry	4
MATH 150AC	Calculus I ¹	4
MATH 150BC	Calculus II ¹	4
MATH 250AC	Multivariable Calculus ¹	4
MATH 250BC	Linear Algebra and Differential Equations ¹	5
PHSC 104 C	Physical Science for Teachers (same as CHEM 104 C) 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 and Statistics: Social Sciences (same as SOC 161 C) ¹	4
or PSY 161HC	Honors Probability and Statistics-Social Sciences (Same as SOC 161HC)	
PSY 221 C	The Brain and Behavior	3
SOC 161 C	Probability and Statistics-Social Sciences (same as PSY 161 C) ¹	4
or SOC 161HC	Honors Probability and Statistics-Social Sciences (Same as PSY 161HC)	
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.