

# LIBERAL ARTS: MATHEMATICS/SCIENCE EMPHASIS, AA

**State Control Number:** 18594

**Program Code:** LAMS.VVCGE.AA or LAMS.CALGETC.AA

**Approved for Federal Financial Aid:** Yes

These courses emphasize 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.

To earn this degree, complete all of the following graduation requirements:

- 60 minimum degree-applicable units (including a maximum 4 units of activity) and 12 degree-applicable units through VVC;
- the major coursework with "C" grades or higher;
- the VVC General Education (<https://catalog.vvc.edu/degrees-certificates/vvcge/#vvcge>) (plus American Institutions and Kinesiology Competencies) or CalGETC (<https://catalog.vvc.edu/degrees-certificates/calgetc/calgetc-ca/#requirementstext>) pattern; and
- 2.0 minimum overall degree-applicable GPA.

Courses may be double-counted in the major, general education, and/or competencies. Courses counted towards one AA/AS major may not be used in another AA/AS major.

Code	Title	Units
<b>Required Courses</b>		
Complete at least 18 units from the following. One course must be from math. One course must be from science. At least two courses must be from one subject.		18.0
<i>Agriculture and Natural Resources</i>		
AGNR 123	Introduction to Plant Science	
AGNR 170	Environmental Science and Sustainability	
<i>Allied Health</i>		
ALDH 125	Medical Aspects of Drugs & Alcohol	
<i>Anthropology</i>		
ANTH 101	Introduction to Physical Anthropology	
ANTH 101L	Physical Anthropology Laboratory	
<i>Astronomy</i>		
ASTR 101	Descriptive Astronomy	
<i>Biology</i>		
BIOL 100	General Biology	
BIOL 107	Introduction to Human Biology	
BIOL 118	Principles of Heredity	
BIOL 201	Biology of Cells	
BIOL 202	Biology of Organisms	
BIOL 203	Population and Environmental Biology	

Code	Title	Units
BIOL 211	Human Anatomy	
BIOL 221	General Microbiology	
BIOL 231	Human Physiology	
<i>Chemistry</i>		
CHEM 100	Introductory Chemistry	
CHEM 201	General Chemistry	
CHEM 202	General Chemistry	
CHEM 206	Introductory Chemistry II: Organic Chemistry	
CHEM 207	Introductory Chemistry III Biochemistry	
CHEM 281	Organic Chemistry	
CHEM 282	Organic Chemistry II	
<i>Geography</i>		
GEOG 101	Introduction to Physical Geography	
GEOG 101L	Geography 1 Laboratory	
GEOG 130	Introduction to Weather and Climate	
<i>Geology</i>		
GEOL 101	Physical Geology	
GEOL 121	Earth Science With Lab	
<i>Health</i>		
HLTH 102/102H	Contemporary Problems in Personal and Community Health	
HLTH 203	Women's Health Issues	
<i>Mathematics</i>		
MATH 103	College Algebra for Allied Health	
MATH 104	Trigonometry	
MATH 105	College Algebra	
MATH 120S	Introduction to Statistics With Skills Support	
MATH 132	The Ideas of Math	
MATH 226	Analytic Geometry and Calculus I	
MATH 226H	Honors Analytic Geometry and Calculus I	
MATH 227	Analytic Geometry and Calculus II	
MATH 227H	Honors Analytic Geometry and Calculus II	
MATH 228	Analytic Geometry and Calculus III	
MATH 228H	Honors Analytic Geometry and Calculus III	
MATH 231	Linear Algebra	
MATH 270	Differential Equations	
STAT C1000	Introduction to Statistics	
<i>Oceanography</i>		
OCEA 101	Oceanography	
<i>Physical Sciences</i>		
PSCI 101	Principles of Physical Science	
<i>Physics</i>		
PHYS 100	Introductory Physics	
PHYS 201	Engineering Physics I-Mechanics	
PHYS 202	Engineering Physics II - Fluids, Sound, and Thermodynamics	
PHYS 203	Engineering Physics III Electricity and Magnetism	
PHYS 204	Engineering Physics IV-Optics and Modern Physics	
PHYS 221	General Physics I	
PHYS 222	General Physics II	
<i>Psychology</i>		

<b>Code</b>	<b>Title</b>	<b>Units</b>
PSYC 109	Biopsychology	
PSYC 215	Introduction to Statistics in Social and Behavioral Sciences	
<b>Total Units</b>		<b>18</b>