

## LIBERAL ARTS (LA)

### About the program

The Associate in Liberal Arts is designed for students who want a broad knowledge of the liberal arts and sciences. This degree requires the successful completion of the general education pattern and an area of emphasis that meets the student's educational goals. The general education pattern provides a broad knowledge of the liberal arts and sciences and the emphasis area requires a student to focus on a specific academic area.

### Degrees/Certificates within this Program:

- Associate of Arts Degree, Liberal Arts: Agriculture
- Associate of Arts Degree, Liberal Arts: Behavioral & Social Science
- Associate of Arts Degree, Liberal Arts: Business
- Associate of Arts Degree, Liberal Arts: Fine Arts
- Associate of Arts Degree, Liberal Arts: Humanities, Language & Communication
- Associate of Arts Degree, Liberal Arts: Mathematics
- Associate of Arts Degree, Liberal Arts: Science
- Associate of Arts Degree, Liberal Arts: Science Exploration

### Similar Degrees/Certificates offered at CR:

- Associate in Arts in History for Transfer
- Associate in Arts in Psychology for Transfer
- Associate in Arts in Studio Arts for Transfer
- Associate in Science in Early Childhood Education for Transfer
- Associate in Science in Mathematics for Transfer
- Associate in Arts in Political Science for Transfer
- Associate in Science in Physics for Transfer

### For more information

- Counseling & Advising, 707-476-4150

### Associate of Arts Degree, Liberal Arts: Science Exploration

	Units
<b>General Education Requirements</b>	
<i>Choose one of three options. See an advisor for more information</i>	
Option A CR General Ed. Requirements	18.0
Option B CSU General Ed. Requirements	39.0
Option C IGETC (UC General Ed.) Requirements	37.0
<b>Program Requirements</b>	
<b>Core Courses</b>	<b>7.0</b>
<i>Choose 7 units, with a minimum of 3 units from Life Science and a minimum of 3 units from Physical Science.</i>	
<b>Restricted Electives</b>	<b>11.0</b>
<i>Choose additional courses to complete 18 units total.</i>	
AG 17 Introduction to Soils [A, B]	3.0
AG 18 Soil Fertility and Fertilizers	3.0
AG 23 Intro to Plant Science [A, B]	3.0
ASTRO 10 Intro to Astronomy [A, B, C]	3.0
ASTRO 11 The Solar System and Space Exploration [A, B, C]	3.0
**ASTRO 15A Observational Astronomy	1.0
BIOL 1 General Biology [A, B, C]	4.0
BIOL 2 Microbiology	4.0
BIOL 3 Fundamental Cell Biology [A, B, C]	4.0
BIOL 4 General Zoology	4.0
BIOL 5 General Botany [A, B, C]	4.0
BIOL 8 Human Biology [A, B, C]	3.0
**BIOL 9 Plants and People	3.0
BIOL 15 Marine Biology [A, B, C]	4.0
BIOL 20 Natural History [A, B, C]	3.0
CHEM 1A General Chemistry [A, B, C]	5.0
CHEM 1B General Chemistry	5.0
CHEM 2 Intro to Chemistry [A, B, C]	5.0
CHEM 3 Intro to Organic Chemistry [A]	4.0
CHEM 8 Brief Organic Chemistry	5.0
CET 10 Survey of Electronics [A, B]	3.0
CIS 12 Programming Fundamentals	4.0
**CIS 16 Intro to Object Oriented Programming	4.0
CIS 18 Object Oriented Programming - Java	4.0
ENVSC 10 Intro to Environmental Science [A, B, C]	3.0
ENVSC 12 Earth's Changing Climate [A, B, C]	3.0
**ENVSC 15 Intro to Energy	3.0
FNR 1 Intro to Forestry and Natural Resources	3.0
FNR 5 Applied Forest Ecology	3.0
FNR 51 Dendrology: The Identification and Study of Woody Plants	3.0
FNR 52 Intro to Surveying	4.0
FNR 54 Intro to Natural Resources Inventory Techniques	3.0

FNR 58 Intro to Photogrammetry and Remote Sensing	2.0
FNR 60 Forest Health and Protection	3.0
FNR 65 Intro to GIS	3.0
GEOG 1 Intro to Physical Geography [A, B, C]	3.0
GEOL 1 Physical Geology with Lab [A, B, C]	4.0
GEOL 10 Environmental Geology [A, B, C]	3.0
GEOL 15 Earthquakes and Plate Tectonics [A, B, C]	3.0
MATH 15 Introduction to Statistics [A, B, C]	4.0
MATH 25 College Trigonometry [A, B]	4.0
MATH 30 College Algebra [A, B, C]	4.0
MATH 45 Linear Algebra	4.0
MATH 50A Differential Calculus [A, B, C]	4.0
MATH 50B Integral Calculus	4.0
MATH 50C Multivariable Calculus	4.0
MATH 55 Differential Equations	4.0
**METEO 1 Intro to Meteorology	3.0
OCEAN 10 Intro to Oceanography [A, B, C]	3.0
OCEAN 11 Lab in Oceanography [A, B, C]	1.0
OCEAN 12 Environmental Oceanography [A, B, C]	3.0
PHYS 2A General Physics I [A, B, C]	4.0
PHYS 2B General Physics II	4.0
PHYS 4A Calculus-Based Physics: Mechanics [A, B, C]	4.0
PHYS 10 Intro to Physics [A, B, C]	3.0
**PHYSC 10 Intro to Physical Science	3.0
<b>Unrestricted Electives</b> - as needed to complete 60 units total	
<b>Total Units</b>	<b>60.0</b>
<i>**Course inactivated. Please see department for appropriate course substitution</i>	
<i>[A] - Course may be double-counted toward CR GE requirements</i>	
<i>[B] - Course may be double-counted toward CSU-GE requirements</i>	
<i>[C] - Course may be double counted toward IGETC (UC GE) requirements</i>	

### About this Degree

The Liberal Arts: Science Exploration degree offers a broad area in the sciences and is intended for students who wish to explore the various fields of study and for those who may not intend to transfer to a university as a science major. Students are encouraged to seek advice if they decide to choose a specific course of study.

### Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

### Program Learning Outcomes

- Apply the scientific method of inquiry to investigations of the natural world.
- Demonstrate an ability to classify matter, energy, and organisms.
- Describe how energy is transferred.
- Explain the processes involved in cell biology and evolutionary change.