Liberal Arts with an Area of Emphasis in Mathematics and Sciences

Academic and Career Pathway

Math and Sciences

Associate in Arts Degree

Liberal Arts with an Area of Emphasis in Mathematics and Sciences

The science courses in this category examine the physical universe, its life forms, and its natural phenomena. These courses assist the student in developing an appreciation of the scientific method and encourage an understanding of the relationships between science and other human activities. The mathematics courses encourage the understanding of mathematical concepts through the development of quantitative reasoning skills.

This area of emphasis provides students with lower-division preparation for a variety of majors within the scientific disciplines, including astronomy, biology, chemistry, and physics, as well as preparation for mathematics majors. Additionally, students may prepare for nursing, kinesiology, public health, and other health science majors. Many of the courses will assist students in prerequisite preparation for graduate programs within the health sciences. A point system using multi-criteria approved by the California Community Colleges Chancellor's Office is used to accept students into the RN program.

Graduation Requirements

- Complete a minimum of 60 degree-applicable units of credit (including major and general education courses).
- Complete all courses required in the major with a "C" or "P" or better.
- Complete a general education pattern of courses (see Associate Degrees).
- Obtain a minimum GPA of 2.0.
- Complete a minimum of 12 units in residence at MiraCosta College.

Program Student Learning Outcome

Upon completion of this program, the student will be able to develop communication, critical thinking, and intellectual skills that effectively prepare him/her for lifelong learning and for advanced study in a wide range of majors at the university level.

Course Requirements

Select a minimum of 18 units from the following courses. At least one course must be a mathematics course. Courses outside of the mathematics discipline that are approved for the quantitative reasoning requirement on Plans B and C may be used in lieu of a course with the MATH prefix.

ANTH 101	Biological Anthropology	3
or ANTH 101H	Biological Anthropology (Honors)	
ANTH 101L	Biological Anthropology Laboratory	1
or ANTH 101LH	Biological Anthropology Lab (Honors)	
ANTH 105	Evolution of Human Behavior	3
or ANTH 105H	Evolution of Human Behavior (Honors)	2
ANTH 190	Primate Behavior and Ecology	3
ASTR 101 ASTR 101L	Descriptive Astronomy Descriptive Astronomy Laboratory	3
ASTR 101L	Life in the Universe	3
BIO 102	Introductory Biology: Ecology and	4
DIO 102	Environmental Biology	4
BIO 103	Introductory Biology: Animal Diversity	3
BIO 104	Introductory Biology: Botany (Plant Life)	4
BIO 105	Introductory Biology: Biotechnology in Society	3
BIO 107	Introductory Biology: Marine Biology	4
BIO 108	Introductory Biology: Ocean Ecology and Sustainability	3
BIO 108L	Introductory Biology: Ocean Ecology and Sustainability Lab	1
BIO 110	Introductory Biology: Preparation for	4
	Pre-Health Professions (Lecture/Lab)	
or BIO 111	Introductory Biology: Preparation for Pre-	
& 111L	Health Professions (Lecture)	
	and Introductory Biology: Preparation for Pre-Health Professions (Lab)	
BIO 202	Foundations of Biology: Evolution, Biodiversity, and Organismal Biology	4
BIO 204	Foundations of Biology:	4
	Biochemistry, Cell Biology, Genetics, and Molecular Biology	
or BIO 204H	Foundations of Biology: Biochemistry, Cell	ĺ
	Biology, Genetics, and Molecular Biology (Honors)	
BIO 210	Human Anatomy	4
or BIO 210H	Human Anatomy (Honors)	
BIO 220	Human Physiology	4
BIO 230	Introduction to Microbiology	5
BTEC 108	Biomanufacturing: From Gene to Product	3
or BTEC 108H	Biomanufacturing: From Gene to Product (Honors)	
BTEC 180	Biostatistics	4
or BTEC 180H	Biostatistics (Honors)	
BUS 147	Personal Finance	3
BUS 204	Business Statistics	3
or BUS 204H	Business Statistics (Honors)	
CHEM 103	Chemistry and Society: For Non- Science Majors	3
CHEM 103L	Chemistry and Society: For Non- Science Majors (Lab)	1
CHEM 112	Introductory General, Organic,	5
	and Biological Chemistry: For Allied Health Majors	

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CHEM 115 Introductory General Chemistry: For Allied Health Majors or CHEM 115H Introductory General Chemistry: For Allied Health Majors (Honors) CHEM 116 Introductory Organic and Biological A Chemistry: For Allied Health Majors CHEM 140 Preparation for General Chemistry: 4 For Science Majors CHEM 150 General Chemistry I: For Science Majors or CHEM 150H General Chemistry I: For Science Majors CHEM 151 General Chemistry II: For Science Majors (Honors) CHEM 151 General Chemistry II: For Science Majors or CHEM 151H General Chemistry II: For Science Majors or CHEM 210 Organic Chemistry II: For Science Majors or CHEM 210H Organic Chemistry II: For Science Majors or CHEM 211H Organic Chemistry II: For Science Majors or CHEM 211H Organic Chemistry II: For Science Majors or CHEM 211H Organic Chemistry II: For Science Majors or CHEM 211H Organic Chemistry II: For Science Majors (Honors) CSIT 123 Introduction to Data Analytics 3 EART 106 Earth and Space Science (Honors) GEOG 101 Earth's Dynamic Environment: 3 Introduction to Physical Geography GEOG 101 Earth's Dynamic Environment: 1 Introduction to Physical Geography Lab GEOG 101 Earth's Dynamic Environment: 1 Introduction to Physical Geography Lab GEOL 101 Physical Geology (Honors) GEOL 101L Physical Geology (Honors) GEOL 101L Physical Geology (Honors) GEOL 101L Physical Geology Laboratory 1 HORT 115 Soil Science 3 HORT 116 Plant Science 4 MATH 103 Statistics 4-5 or MATH 103 Statistics (Honors) or MATH 103 Statistics (Honors) or MATH 103 Statistics With Integrated Support MATH 104 Concepts and Structures of 3 Elementary Mathematics I MATH 105 Concepts and Structures of 3 Elementary Mathematics II MATH 116 Pre-Calculus II: Trigonometry and Analytic Geometry (Honors)			
or CHEM 115H Introductory General Chemistry: For Allied Health Majors (Honors) CHEM 116 Introductory Organic and Biological 4 Chemistry: For Allied Health Majors CHEM 140 Preparation for General Chemistry: 4 For Science Majors CHEM 150 General Chemistry I: For Science Majors (Honors) CHEM 151H General Chemistry II: For Science Majors (Honors) CHEM 151 General Chemistry II: For Science Majors (Honors) CHEM 210 Organic Chemistry II: For Science Majors (Honors) CHEM 211 Organic Chemistry II: For Science Majors (Honors) CHEM 211 Organic Chemistry II: For Science Majors (Honors) CHEM 211 Organic Chemistry II: For Science Majors (Honors) CHEM 211 Organic Chemistry II: For Science Majors (Honors) CHEM 211 Organic Chemistry II: For Science Majors (Honors) CSIT 123 Introduction to Data Analytics 3 EART 106 Earth and Space Science (Honors) GEOG 101 Earth's Dynamic Environment: 3 Introduction to Physical Geography GEOG 101 Earth's Dynamic Environment: 1 Introduction to Physical Geography Lab GEOL 101 Physical Geology (Honors) GEOL 101 Physical Geology	CHEM 115		4
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or MATH 126S Pre-Calculus I: College Algebra with Integrated Support MATH 131 Pre-Calculus II: Trigonometry and 4 Analytic Geometry or MATH 131H Pre-Calculus II: Trigonometry and Analytic	MATH 115	Calculus with Applications	5
Integrated Support MATH 131 Pre-Calculus II: Trigonometry and 4 Analytic Geometry or MATH 131H Pre-Calculus II: Trigonometry and Analytic			4
Analytic Geometry or MATH 131H Pre-Calculus II: Trigonometry and Analytic		Integrated Support	4
		Analytic Geometry	
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MATH 135	Pre-Calculus Mathematics	6
MATH 150	Calculus and Analytic Geometry I 5	-7
or MATH 150H	Calculus and Analytic Geometry I (Honor	s)
or MATH 150S	Calculus and Analytical Geometry I with	
	Integrated Support	
MATH 155	Calculus and Analytic Geometry II	4
or MATH 155H	Calculus and Analytic Geometry II (Honors)	
MATH 226	Discrete Mathematics	4
or MATH 226H	Discrete Mathematics (Honors)	
MATH 260	Calculus and Analytic Geometry III	4
or MATH 260H	Calculus and Analytic Geometry III (Honors)	
MATH 265	Differential Equations	4
or MATH 265H	Differential Equations (Honors)	
MATH 270	Linear Algebra	4
or MATH 270H	Linear Algebra (Honors)	
NUTR 100	Nutrition Today	3
or NUTR 100H	Nutrition Today (Honors)	
NUTR 120	Principles of Food Science with Lab	3
OCEA 101	Introduction to Oceanography	3
or OCEA 101H	Introduction to Oceanography (Honors)	
OCEA 101L	Introductory Oceanography Laboratory	1
PHSN 106	Introduction to Physical Science: Physics and Chemistry	3
PHSN 108	Introduction to Climate Change	3
or PHSN 108H	Introduction to Climate Change (Honors)	
PHYS 111	Introductory Physics I	4
or PHYS 111H	Introductory Physics I (Honors)	
PHYS 112	Introductory Physics II	4
or PHYS 112H	Introductory Physics II (Honors)	
PHYS 151	Principles of Physics I	4
or PHYS 151H	Principles of Physics I (Honors)	
PHYS 152	Principles of Physics II	4
or PHYS 152H	Principles of Physics II (Honors)	
PHYS 253	Principles of Physics III	4
or PHYS 253H	Principles of Physics III (Honors)	
PHYS 280	Introduction to Electronics	3
PSYC 104	Statistics for Behavioral Science	4
or PSYC 104H	Statistics for Behavioral Science (Honors)	
PSYC 260	Physiological Psychology	3
SOC 125	Introduction to Statistics in Sociology	4