

2022 -2023

## Liberal Arts and Sciences: Natural Sciences Associate in Arts Degree

Complete the following program of study (Major C.5130.AA). Major requirements (18 units minimum).

These courses emphasize the natural sciences which examine the physical universe, its life forms, and its natural phenomena. 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 civilizations.

Name: \_\_\_\_\_ Student ID: \_\_\_\_\_ Date: \_\_\_\_\_

### Course Overview and Selection

Choose courses from three separate disciplines:

#### Anthropology *ANTHRO*

Course	Course Description	Units	Completed	In Progress	Planned
<b>ANTHRO 1</b>	Biological Anthropology	<b>3</b>			

#### Biology *BIOL*

Course	Course Description	Units	Completed	In Progress	Planned
<b>BIOL 2</b>	Environmental Science	<b>4</b>			
<b>*BIOL 3</b>	Introduction to Life Science	<b>4</b>			
<b>BIOL 5</b>	Human Biology	<b>4</b>			
<b>*BIOL 10 and BIOL10L</b>	Introduction to Life Science and Introduction to Life Science Lab	<b>3</b> <b>1</b>			
<b>BIOL 11A</b>	Biology for Science Majors I	<b>5</b>			
<b>BIOL 11B</b>	Biology for Science Majors II	<b>5</b>			
<b>BIOL 20</b>	Human Anatomy	<b>4</b>			
<b>BIOL 22</b>	Human Physiology	<b>5</b>			
<b>BIOL 25</b>	Introduction to Anatomy and Physiology	<b>4</b>			
<b>BIOL 31</b>	Microbiology	<b>5</b>			

#### Chemistry *CHEM*

Course	Course Description	Units	Completed	In Progress	Planned
<b>CHEM 1A</b>	General Chemistry	<b>5</b>			
<b>CHEM 1B</b>	General Chemistry and Qualitative Analysis	<b>5</b>			
<b>CHEM 3A</b>	Introductory General Chemistry	<b>4</b>			
<b>CHEM 3B</b>	Introductory Organic and Biological Chemistry	<b>3</b>			
<b>CHEM 8</b>	Elementary Organic Chemistry	<b>3</b>			
<b>CHEM 10</b>	Elementary Chemistry	<b>4</b>			
<b>CHEM 28A</b>	Organic Chemistry I	<b>3</b>			
<b>CHEM 28B</b>	Organic Chemistry II	<b>3</b>			
<b>CHEM 29A</b>	Organic Chemistry Laboratory I	<b>2</b>			
<b>CHEM 29B</b>	Organic Chemistry Laboratory II	<b>2</b>			

#### Geography *GEOG*

Course	Course Description	Units	Completed	In Progress	Planned
<b>GEOG 1</b>	Physical Geography	<b>3</b>			

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Geology *GEOL*

Course	Course Description	Units	Completed	In Progress	Planned
<b>GEOL 1</b>	Physical Geology	4			
<b>GEOL 9</b>	Introduction to Earth Science	4			

Physics *PHYS*

Course	Course Description	Units	Completed	In Progress	Planned
<b>PHYS 2A</b>	General Physics I	4			
<b>PHYS 2B</b>	General Physics II	4			
<b>PHYS 4A</b>	Physics for Scientists and Engineers	4			
<b>PHYS 4B</b>	Physics for Scientists and Engineers	4			
<b>PHYS 4C</b>	Physics for Scientists and Engineers	4			
<b>PHYS 10</b>	Conceptual Physics	3.5			

Science *SCI*

Course	Course Description	Units	Completed	In Progress	Planned
<b>SCI 1A</b>	Introductory Chemical and Physical Science	4			

Notes:

\*BIOL 3 Introduction to Life Science is the same as \*BIOL 10-Introduction to Life Science (LEC) and \*BIOL 10L Introduction to Life Science Lab (Lab)

\*\*C-ID number is based on the completion of the pair of classes with the same C-ID number

Please note that the C-ID Descriptors are shown however, not required (if in a sequence of courses to complete for C-ID) for the "local" Associate Degree.)

Program Learning Outcomes:

1. Demonstrate an understanding of the methodologies of each discipline within the natural and physical sciences.
2. Demonstrate an understanding of basic scientific principles, theories, and laws as well as an awareness of the changing nature of science.

Comments: