

**Associate of Science: Biological and Pre-Professional Sciences**

Program Code (031)

Division of Math and Science

Required: 61-62 Credit Hours, 2.00 GPA

*Students are required to complete the following General Education and Major Requirement courses. Students who complete this associate's degree are prepared to transfer and continue their education at a four-year college/university. Students should consult with their academic advisor and refer to the 4-semester by semester program planning guide to understand course sequencing.*

GENERAL EDUCATION REQUIREMENTS (37 HOURS)	MAJOR REQUIREMENTS (24-25 HOURS)
<p><b>Orientation - 1 hour</b>                      ___ ORI 1111 Freshman Orientation</p> <p><b>English Composition - 6 hours</b> <i>(Select Both)</i>                      ___ ENGL 1113 Freshman Composition I                      ___ ENGL 1213 Freshman Composition II</p> <p><b>U.S. History - 3 hours</b> <i>(Select One)</i>                      ___ HIST 1483 Am His 1492-1865 or HIST 1493 Am His 1865-Pr</p> <p><b>U.S. Government - 3 hours</b>                      ___ POS 1113 American Federal Government</p> <p><b>Biological Science - 4 hours</b>                      ___ ZOO 1114 General Zoology<sup>1</sup></p> <p><b>Physical Science - 5 hours</b>                      ___ CHEM 1115 General Chemistry I<sup>2</sup></p> <p><b>Mathematics - 3 hours</b>                      ___ MATH 1513 College Algebra<sup>3</sup></p> <p><b>Computer Proficiency - 3 hours</b>                      ___ CS 1103 Microcomputer Applications</p> <p><b>Humanities - 6 hours</b> <i>(Select Two)</i>                      ___ HUM 2113 Gen Hum. I      ___ HUM 2223 Gen Hum II                      ___ ART 1113 Art Appreciation    ___ DRMA 1213 Intro Theatre                      ___ HIST 1113 Early West Civ    ___ HIST 1123 Mod West Civ                      ___ MUS 1113 Music Apprec    ___ PHIL 1113 Intro to Philosophy                      ___ PHIL 2123 Ethics      ___ RLED 1113 Old Testament                      ___ RLED 1123 New Testament    ___ RLED 2113 World Religions                      ___ Any Literature Course(s)</p> <p><b>Approved Elective - 3 hours</b>  <i>Select any one course in psychology, social sciences, foreign languages, &amp; fine arts (art, music, drama) in conference with advisor</i>                      ___ Elective</p>	<p><b>Required Courses in Major - 12 Hours</b>  <i>(Select All)</i>                      ___ CHEM 1215 General Chemistry II<sup>5</sup>                      ___ MATH 1613 Plane Trigonometry<sup>3</sup>                      ___ PHYS 1114 General Physics I</p> <p><i>Select One Option: (consult with Advisor)</i></p> <p><b>Biological/ Zoology electives 12 hours</b> <i>(Select three)</i>                      ___ BIO 2155 Microbiology<sup>5</sup>                      ___ PHYS 1214 General Physics II<sup>3</sup>                      ___ ZOO 2114 Human Physiology<sup>4</sup>                      ___ BOT 1114 General Botany                      ___ Approved Elective</p> <p><b>Pre-Medicine electives 12 hours</b> <i>(Select three)</i>                      ___ PHYS 1214 Gen Physics II<sup>3</sup>                      ___ ZOO 2114 Human Physiology<sup>4</sup>                      ___ ZOO 2124 Human Anatomy                      ___ Approved Elective</p> <p><b>Pre-Pharmacy electives 13 hours</b> <i>(Select three)</i>                      ___ MATH 2265 Analytic Geometry and Calculus I                      ___ BIO 2155 Microbiology<sup>5</sup>                      ___ ZOO 2114 Human Physiology<sup>4</sup>                      ___ ZOO 2124 Human Anatomy                      ___ Approved Elective</p> <p><b>Pre-Veterinary Medicine electives 12 hours</b> <i>(Select all)</i>                      ___ BIO 2155 Microbiology<sup>5</sup>                      ___ PHYS 1214 Gen Physics II<sup>3</sup>                      ___ Approved Elective (in conference with advisor)</p>
<p><b>Totals: -----Credit Hours: 37</b></p>	<p><b>Totals: ----- Credit Hours: 24-25</b></p>

<sup>1</sup> General Zoology satisfies the General Education biological science course requirement for all Associate of Science majors.

<sup>2</sup> CHEM 1115 has a co-requisite of MATH 1513, or, MATH 1513 may be taken prior to taking CHEM 1115.

<sup>3</sup> MATH 1513 prerequisite to MATH 1613; MATH 1613 prerequisite to PHYS 1114

<sup>4</sup> Prerequisite of CHEM 1115; completion of ZOO 2124 strongly recommended prior to enrollment

<sup>5</sup> Prerequisite of CHEM 1115

Notes to Advisee: (**Fall only** courses: PHYS 1114 General Physics I) and (**Spring only** courses: PHYS 1214 General Physics II)

**Semester by Semester Degree Plan**  
**Biological and Pre-Professional Science, AS (031)**

<b>Course Number – Course Description</b>	<b>Hours</b>
<b>Freshman Year 1<sup>st</sup> Semester – Fall</b>	
<input type="checkbox"/> ORI 1111 Freshman Orientation	1
<input type="checkbox"/> ENGL 1113 Freshman Composition I	3
<input type="checkbox"/> HIST 1483 or 1493 American History	3
<input type="checkbox"/> ZOO 1114 General Zoology	4
<input type="checkbox"/> MATH 1513 College Algebra	3
<input type="checkbox"/> Humanities – (ART, ENGL, HUM, MUS, PHIL, OR RLED)	3
<b>Total:</b>	<b>17</b>
<b>Freshman Year 2<sup>nd</sup> Semester – Spring</b>	
<input type="checkbox"/> ENGL 1213 Freshman Composition II	3
<input type="checkbox"/> POS 1113 American Federal Government	3
<input type="checkbox"/> CHEM 1115 General Chemistry I	5
<input type="checkbox"/> MATH 1613 Plane Trigonometry	3
<input type="checkbox"/> CS 1103 Microcomputer Applications	3
<b>Total:</b>	<b>17</b>
<b>Sophomore Year 1<sup>st</sup> Semester – Fall</b>	
<input type="checkbox"/> CHEM 1215 General Chemistry II	5
<input type="checkbox"/> PHYS 1114 General Physics I	4
<input type="checkbox"/> Humanities – (ART, ENGL, HUM, MUS, PHIL, OR RLED)	3
<input type="checkbox"/> Elective in General Education ....(PSY, SOC, GEOG, LANGUAGE, ART, MUS, OR DRAMA)	3
<b>Total:</b>	<b>15</b>
<b>Sophomore Year 2<sup>nd</sup> Semester – Spring</b>	
<input type="checkbox"/> Elective in Major OPTION*	3
<input type="checkbox"/> Elective in Major OPTION*	3
<input type="checkbox"/> Elective in Major OPTION*	3
<input type="checkbox"/> Elective in Major OPTION*	3
<b>Total:</b>	<b>12</b>
<b>Total Hours:</b>	<b>61</b>

*Program Requirements: 61-62 cr-hrs, 2.00 GPA*

\*See Degree Plan and choose from respective OPTION electives per student interest and in consultation with advisor.

**How to Use this “Semester by Semester Degree Plan”:** Courses in this semester by semester breakdown are listed with several thoughts in mind. Prerequisites are listed first. Science, math, and major coursework are listed in order the course should be taken and in what term the course should be taken. Students should enroll into ORI 1111 and ENGL 1113, and any development courses in the first term. Courses listed in parenthesis are selections from which a student may choose. Enrollment into developmental courses will add to the total credit hour count, and may alter math and science enrollment rotations. -- While this is a guide to help the student with pre-enrollment, a study of the Course Schedule and a visit with an academic advisor is a must.

**Estimated Program Cost:** Students can complete this degree in four semesters (15-17 per semester).

The estimated cost of this program is approximated at: *61 credit-hours x \$127.25 per credit hour = \$ 7,762.25* (Please know that this cost does not include textbooks, supplies, developmental coursework, and other expenses, and is designed as an ESTIMATE only).

Actual program cost is based on Fall 2018 in-state tuition amounts and the final costs will vary from this estimate.