



Science and Health Interest Area

**BIOLOGY**  
**ASSOCIATE OF SCIENCE DEGREE**  
 SAMPLE SEQUENCE MAP

*This form is designed to be used in partnership with academic counselors. Modifications may be necessary to meet your goals. Seek assistance from an academic counselor each semester to stay on track to completion of major/certificate. There are 3 General Education patterns available. Not all courses on the map are offered every term. Consult the Catalog and the Schedule of Classes for more details*

0 – 15 UNITS		Pre- or co-reqs	Credit	GE
Semester 1	Area IA: English Composition: ENGL 122 – First-Year College Composition and Reading	Placement	3	IA
	Area II: Natural Sciences: CHEM 120 – General College Chemistry I	CHEM 108. MATH 119	5	II
	Area IC: Mathematic Comprehension	Placement	3-5	IC
	Area IB: Communication & Critical Thinking		3	IB
	Total		14-16	

16 – 30 UNITS		Pre- or co-reqs	Credit	GE
Semester 2	CHEM 121 - General College Chemistry II	CHEM 120	5	
	Area III: Arts and Humanities		3	III
	Area IV: Social and Behavioral Sciences		3	IV
	Degree Applicable Elective	See catalog	4	
	Total		15	

31 – 45 UNITS		Pre- or co-reqs	Credit	GE
Semester 3	BIOSC 130 – Principles of Cellular and Molecular Biology		5	
	Degree Applicable Elective		10	
	Total		15	

46 – 60 UNITS		Pre- or co-reqs	Credit	GE
Semester 4	BIOSC 131 – Principles of Organismal Biology	CHEM 120	5	
	Degree Applicable Elective		10	
	Total		15	

**Program total: 60**

This sheet is intended as a tool for students that are exploring and/or testing out their major options. If you know what major you want to focus on, the classes you choose should be in line with your certificate/degree/transfer goals and you should choose your courses in consultation with a counselor.

<p><b>Recommended First Semester Science and Health</b></p> <p>"I am interested in understanding the natural world and improving people's health."</p>
<p><b>Select 1 English Course</b></p>
<p><b>Suggested English Courses</b></p> <ul style="list-style-type: none"> <li>• ENGL 122* - First-Year College Composition and Reading (Support Course ENGL 120) or</li> <li>• ENGL 122A* - First-Year College English for Multilingual Students (Support Course ENGL 120A)</li> </ul>
<p><b>Select 1 Math Course</b></p>
<p><b>Suggested Math Courses</b></p> <ul style="list-style-type: none"> <li>• Math 121 - Plane Trigonometry (Support Course MATH 021) or</li> <li>• Math 142* - Statistics (Support Course MATH 042) or</li> <li>• Math 191* - Pre-Calculus or</li> <li>• Math 192* - Analytic Geometry and Calculus I</li> </ul>
<p><b>Select 1 Meta-Major Course</b></p>
<p><b>Life Science</b></p> <ul style="list-style-type: none"> <li>• BIOSC 102* - Fundamentals of Biological Science With Laboratory</li> <li>• BIOSC 171* - Environmental Science with Laboratory</li> <li>• HORT 110 - Introduction to Horticulture and Plant Science</li> </ul>
<p><b>Physical Science</b></p> <ul style="list-style-type: none"> <li>• CHEM 108* - Introductory Chemistry</li> <li>• PHYS 120* - General College Physics I or PHYS 129* - Introductory Physics for Engineers</li> <li>• ENGIN 110 - Introduction to Engineering</li> <li>• GEOG 120* - Physical Geography + GEOG 121* - Physical Geography Laboratory</li> <li>• GEOG 125 - Introduction to Geographic Information Systems (GIS)</li> <li>• GEOL 121* - Earth and Life Through Time + GEOL 124* - Earth and Life Through Time Laboratory</li> <li>• OCEAN 101* - Fundamentals of Oceanography or OCEAN 102* - Fundamentals of Oceanography w/ Lab</li> </ul>
<p><b>Health and Wellness</b></p> <ul style="list-style-type: none"> <li>• ADS 170 - Introduction to Codependency and Family Issues</li> <li>• CULN 110 - Orientation to Hospitality</li> <li>• HSCI 124 - Health and Wellness or HSCI 130* - Introduction to Public Health</li> <li>• KINES 210 - Introduction to Kinesiology</li> <li>• NUTRI 160 - Nutrition: Science and Applications</li> </ul> <p>*IGETC approved course</p>