

# Biology

## Associate in Science

### Degree Program Mentor

For additional information regarding this degree, contact the Degree Program Mentor.



**Susan Walker**  
 Assistant Professor  
 405-382-9235  
 s.walker@sscoc.edu  
 Division Office: 405-382-9266

### Program Objective

The objective of the Biology Associate in Science is to prepare students for transfer to a bachelor's degree granting institution to major in a life science.

### Requirements for Graduation

1. At least sixty-three designated semester credit hours.
2. Grade of "C" or better required in all Major Field Requirement courses.
3. Grade Point Average of 2.0 or better.
4. Fifteen semester credit hours in attendance at SSC.
5. Completion of Graduate Exit Survey.

**Please Note:** Consult with advisor for specific transfer requirements. General Education and Major Field requirements vary between universities.

**Transfer Note:** A statewide transfer agreement guarantees students transferring to an Oklahoma public four-year university **with an associate in arts or associate in science degree** the associate degree will satisfy all freshman and sophomore general education requirements at the four-year university.

<b>General Education Requirements</b> ..... 34		
GOV 1113	American National Government	3
HIST 1483	American History to 1877 <b>or</b>	
HIST 1493	American History since 1877	3
ENG 1113	Composition I	3
ENG 1213	Composition II	3
SPCH 1143	Speech	3
HUM	Any class designated as Humanities	6
MATH 1523	Pre-Calculus for Bus-Biol	3
SCIENCE	<i>met by program</i>	
CAP 1103	Introduction to Microsoft Office	3
HPER 1012	Wellness and Human Development <b>or</b>	
	Two HPER Activity Courses	2
STSC 1002	Learning Strategies	2
ELECTIVE	Select from Psychology, Social Sciences, World Languages, or Fine Arts	3

<b>Major Field Requirements</b> ..... 21		
BIOL 1214	Principles of Biology	
BIOL 1224	General Botany <b>or</b> BIOL 1234 General Zoology	
BIOL 2224	Microbiology	
CHEM 1315	General Chemistry I	
PHYS 2114	General Physics I	

### Major Field Electives and Support..... 8

*Select from the following:*

MATH 2213	Calculus for Business and Biology (recommended)	
AGRI 1104	Introduction to Animal Science	
AGRI 1204	Introduction to Plant and Soil Science	
BIOL 1224	General Botany	
BIOL 1234	General Zoology	
BIOL 2113	Introduction to Nutrition	
BIOL 2114	Human Anatomy	
BIOL 2214	Human Physiology	
BIOL 2301-3	Special Projects in Biology	
CHEM 1114	Introduction to Chemistry	
CHEM 1515	General Chemistry II	
ENVS 1114	Introduction to Environmental Science	
PHYS 2224	General Physics II	

### MINIMUM TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE 63

#### Recommended Major Field Courses, Electives, and Support for Pre-Professional Emphasis in Medicine, Dentistry, and Optometry

BIOL 1214	Principles of Biology <b>or</b>	
BIOL 1234	General Zoology	4
BIOL 2114	Human Anatomy	4
BIOL 2214	Human Physiology	4
BIOL 2224	Microbiology	4
CHEM 1315	General Chemistry I	5
CHEM 1515	General Chemistry II	5
PHYS 2114	General Physics I	4
PHYS 2214	General Physics II	4

Professional school entrance requirements vary. Consult potential professional schools individually for specific entrance requirements for medicine, dentistry, optometry, physical therapy and veterinary medicine.

### Suggested Sequence of Major Field Courses

<u>First Semester</u>	<u>Second Semester</u>	<u>Third Semester</u>	<u>Fourth Semester</u>
BIOL 1214	BIOL 1224 or 1234	BIOL 2214	Major Field Elective
CHEM 1315	CHEM 1515 (SP only)	PHYS 2114 (FA only)	



# Biology - Associate in Science Degree Requirements Checklist 2019-20

A statewide transfer agreement guarantees students transferring to an Oklahoma public four-year university **with an associate in arts or associate in science degree** will satisfy all freshman and sophomore general education requirements at the four-year university.

6 hrs.	<b>GENERAL EDUCATION REQUIREMENTS</b>	3 hrs.	Psychology, Soc. Science, World Language, or Fine Arts Elective <i>Select one of the following:</i>
	<b>Social Sciences</b> <input type="checkbox"/> GOV 1113 American National Government <input type="checkbox"/> HIST 1483 American History Survey to 1877 <b>or</b> <input type="checkbox"/> HIST 1493 American History Survey since 1877		<input type="checkbox"/> ANTH 1113 General Anthropology <input type="checkbox"/> ART 1103 Fundamentals of Art I <input type="checkbox"/> ART 1123 Drawing I <input type="checkbox"/> ART 1173 Crafts I <input type="checkbox"/> ART 1223 Black and White Photography I <input type="checkbox"/> ART 2123 Ceramics I <input type="checkbox"/> ART 2213 Watercolor I <input type="checkbox"/> BA 2113 Macroeconomics <input type="checkbox"/> BA 2213 Microeconomics <input type="checkbox"/> CJ 1113 Introduction to Criminology <input type="checkbox"/> ENG 2103 Fiction Writing <input type="checkbox"/> ENG 2113 Creative Writing <input type="checkbox"/> ENG 2123 Introduction to Poetry <input type="checkbox"/> ENG 2343 Sign Language I <input type="checkbox"/> FREN 1125 French I <input type="checkbox"/> GEOG 1123 World Regional Geography <input type="checkbox"/> MUS 2303 Performance Techniques <input type="checkbox"/> NAS 1713 Seminole/Creek Language I <input type="checkbox"/> PSY 1113 General Psychology <input type="checkbox"/> RUSS 1113 Elementary Russian <input type="checkbox"/> SOC 1113 Introduction to Sociology <input type="checkbox"/> SPAN 1125 Spanish I <input type="checkbox"/> SPCH 1533 Acting I
9 hrs.	<b>Language Arts</b> <input type="checkbox"/> ENG 1113 Composition I <input type="checkbox"/> ENG 1213 Composition II <input type="checkbox"/> SPCH 1143 Speech		
6 hrs.	<b>Humanities</b> <i>Select two of the following:</i> <input type="checkbox"/> HUM _____ <input type="checkbox"/> HUM _____ any course with HUM prefix (list above) <b>or</b> <input type="checkbox"/> ART 1153 Art History I <input type="checkbox"/> ART 1163 Art History II <input type="checkbox"/> ART 1203 Art Appreciation <input type="checkbox"/> ART 2323 Global Studies in Art <input type="checkbox"/> ENG 2043 Global Studies in Language Arts and Humanities <input type="checkbox"/> ENG 2413 Introduction to Literature <input type="checkbox"/> ENG 2433 World Literature I <input type="checkbox"/> ENG 2543 British Literature I <input type="checkbox"/> ENG 2653 British Literature II <input type="checkbox"/> ENG 2753 American Literature I <input type="checkbox"/> ENG 2883 American Literature II <input type="checkbox"/> HIST 2223 Early Western Civilization to 1660 <input type="checkbox"/> HIST 2233 Modern Western Civilization since 1660 <input type="checkbox"/> JOUR 1123 Introduction to Mass Communication <input type="checkbox"/> MUS 1213 Music Appreciation I <input type="checkbox"/> MUS 1223 Music Appreciation II <input type="checkbox"/> PHIL 1113 Introduction to Philosophy <input type="checkbox"/> SOC 2433 Global Studies in Culture and Diversity <input type="checkbox"/> SPAN 2103 Global Studies in Spanish <input type="checkbox"/> SPCH 1523 Introduction to Theatre	34 hrs.	<b>TOTAL REQUIRED GENERAL EDUCATION HOURS</b>
		21 hrs.	<b>MAJOR FIELD REQUIREMENTS</b>
			<input type="checkbox"/> BIOL 1214 Principles of Biology <input type="checkbox"/> BIOL 1224 General Botany <b>or</b> <input type="checkbox"/> BIOL 1234 General Zoology <input type="checkbox"/> BIOL 2224 Microbiology <input type="checkbox"/> CHEM 1315 General Chemistry I <input type="checkbox"/> PHYS 2114 General Physics I
3 hrs.	<b>Mathematics</b> <input type="checkbox"/> MATH 1523 Pre-Calculus for Bus-Biol	8 hrs.	<b>MAJOR FIELD ELECTIVES AND SUPPORT</b>
	<b>Life Science</b> <input checked="" type="checkbox"/> met by program		<i>Select from the following:</i>
	<b>Physical Science</b> <input checked="" type="checkbox"/> met by program		<input type="checkbox"/> MATH 2213 Calculus for Bus. and Biol. (recommended) <input type="checkbox"/> AGRI 1104 Introduction to Animal Science <input type="checkbox"/> AGRI 1204 Introduction to Plant and Soil Science <input type="checkbox"/> BIOL 1224 General Botany <input type="checkbox"/> BIOL 1234 General Zoology <input type="checkbox"/> BIOL 2113 Introduction to Nutrition <input type="checkbox"/> BIOL 2114 Human Anatomy <input type="checkbox"/> BIOL 2214 Human Physiology <input type="checkbox"/> BIOL 2301 Special Projects in Biology <input type="checkbox"/> BIOL 2302 Special Projects in Biology <input type="checkbox"/> BIOL 2303 Special Projects in Biology <input type="checkbox"/> CHEM 1114 Introduction to Chemistry <input type="checkbox"/> CHEM 1515 General Chemistry II <input type="checkbox"/> ENVS 1114 Introduction to Environmental Science <input type="checkbox"/> PHYS 2224 General Physics II
3 hrs.	<b>Computer Applications</b> <input type="checkbox"/> CAP 1103 Introduction to Microsoft Office		
2 hrs.	<b>Health, Physical Education and Recreation</b> <input type="checkbox"/> HPER 1012 Wellness and Human Development <b>or</b> Two HPER Activity Courses		
2 hrs.	<b>Student Success</b> Required during first semester <input type="checkbox"/> STSC 1002 Learning Strategies	29 hrs.	<b>TOTAL REQUIRED MAJOR FIELD HOURS</b>
	revised 11/2018	63 hrs.	<b>MINIMUM TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE</b>