South Central College
Program Design

AS 3526 Biology Transfer Pathway

Program Information

Instructional Level Associate Degree

Description

The Biology A.S. degree at South Central College provides learners with the first two years of a broad-based education in Biology and its supporting sciences. As a Minnesota State Pathway program, it is specifically designed to prepare learners to transfer into the junior year of a Biology major at a four-year college.

Program Admission Dates (Fall and/or Spring)

Fall and Spring

Program Location (North Mankato and/or Faribault)

North Mankato

Program Student Learning Outcomes

1 Apply scientific methodologies by designing and conducting experiments including testing hypotheses.

2 Demonstrate proficiency in scientific literacy.

3 Communicate scientific information in a clear and concise manner both orally and in writing.

4 Develop critical thinking with the ability to analyze, reflect, and expand on scientific knowledge.

Program Configurations

Fall Start, Full Time

Credits

Technical Course	32
Arts & Sciences	28
Total Credits	**60**

Semester 1

Course #	Course Title	Credits	Function
BIOL 115	**General Biology I**	4	Technical Course

MATH 120	**College Algebra**	4	Arts & Sciences
CHEM 120	**Principles of Chemistry I**	5	Technical Course
COMM 110	**Public Speaking**	3	Arts & Sciences

Semester 2

Course #	Course Title	Credits	Function
BIOL 116	**General Biology II**	4	Technical Course
CHEM 121	**Principles of Chemistry II**	5	Technical Course
ENGL 100	**Composition**	4	Arts & Sciences
LIB ARTS	**General Education Course to satisfy goal area 5**	3	Arts & Sciences

Semester 3

Course #	Course Title	Credits	Function
BIOL 211	**Genetics**	4	Technical Course
LIB ARTS	**General Education Course to satisfy goal area 6**	3	Arts & Sciences
LIB ARTS	**General Education course to satisfy goal area 7, 8, 9 or 10**	3	Arts & Sciences
BIOL215 OR BIOL270	**Ecology OR Microbiology (Restricted Electives)**	4	Technical Course

Semester 4

Course #	Course Title	Credits	Function
BIOL 250	**Biology Capstone**	2	Technical Course
ENGL 240	**Technical Communication**	4	Technical Course
MATH 125 OR MATH 154	**Trigonometry or Elementary Statistics**	4	Arts & Sciences
LIB ARTS	**Science elective based on transfer destination (BIOL220, or PHYS101)**	4	Arts & Sciences

Fall Start, Part Time

Credits

Technical Course	32
Arts & Sciences	28
Total Credits	**60**

Semester 1

Course #	Course Title	Credits	Function

CHEM 120	**Principles of Chemistry I**	5	Technical Course
MATH 120	**College Algebra**	4	Arts & Sciences

Semester 2

Course #	Course Title	Credits	Function
BIOL 116	**General Biology II**	4	Technical Course
CHEM 121	**Principles of Chemistry II**	5	Technical Course

Semester 3

Course #	Course Title	Credits	Function
BIOL 115	**General Biology I**	4	Technical Course
ENGL 100	**Composition**	4	Arts & Sciences

Semester 4

Course #	Course Title	Credits	Function
LIB ARTS	**Science elective based on transfer destination (BIOL220, PHYS101)**	4	Arts & Sciences
COMM 110	**Public Speaking**	3	Arts & Sciences

Semester 5

Course #	Course Title	Credits	Function
BIOL215 or BIOL270	**Ecology OR Microbiology (restricted electives)**	4	Technical Course
ENGL 240	**Technical Communication**	4	Technical Course

Semester 6

Course #	Course Title	Credits	Function
MATH125 OR MATH154	**Trigonometry or Elementary Statistics**	4	Arts & Sciences
LIB ARTS	**General Education Course to satisfy goal area 5**	3	Arts & Sciences

Semester 7

Course #	Course Title	Credits	Function
BIOL 211	**Genetics**	4	Technical Course
LIB ARTS	**General Education Course to satisfy goal area 6**	3	Arts & Sciences

Semester 8

Course #	Course Title	Credits	Function
BIOL 250	**Biology Capstone**	2	Technical Course

LIB ARTS	**General Education Course to satisfy goal area 7, 8, 9, or 10**	3	Arts & Sciences

Program Course List

Number	Title	Credits	Pre/Corequisites
BIOL 115	**General Biology I**	4	Must have a Next-Generation Accuplacer Reading score of 250 or higher, or Classic Accuplacer Reading score of 78 or higher, or completion of either READ 0090 or EAP 0090 with a grade of C (2.0) or higher, or ACT Reading score of 21 or higher or MCA Reading score of 1047 or higher AND either MATH 0085 or MATH 0095 with a C (2.0) or higher.
BIOL 116	**General Biology II**	4	Next-Generation Accuplacer score of 250 or above, or Classic Accuplacer Reading score of 78 or higher, or either ENGL 0090 or EAP 0095 with a C (2.0) or higher or ACT Reading score of 21 or higher or MCA Reading score of 1047 or higher AND a Next-Generation Accuplacer QAS score of 237 or higher or Classic Accuplacer College Level Math score of 50 or higher, or either MATH 0085 or MATH 0095 with a C (2.0) or higher.
BIOL 211	**Genetics**	4	BIOL 115 BIOL116 Strongly recommended
BIOL 215	**General Ecology**	4	BIOL 116
BIOL 250	**Biology Capstone**	2	Instructor permission
BIOL 270	**Microbiology**	4	A grade of C or higher in BIOL115 OR BIOL225 OR BIOL220 AND CHEM108 OR CHEM110 OR CHEM120
COMM 110	**Public Speaking**	3	Score of 86 on the Sentence Skills portion of the Accuplacer or ENGL 0090 with a C or higher.
ENGL 240	**Technical Communication**	4	ENGL 100 or instructor permission.
BIOL 220	**Human Anatomy**	4	Must have a Next-Generation Accuplacer Reading score of 250 or higher, or Classic Accuplacer Reading score of 78 or higher, or completion of either READ 0090 or EAP 0090 with a grade of C (2.0) or higher, or ACT Reading score of 21 or higher or MCA Reading score of

			1047 or higher.
CHEM 120	**Principles of Chemistry I**	5	A score of 103 n the college level math portion of the accuplacer or a minimum ACT math score of 22 or Math 120 or currently taking Math 120 is needed.
CHEM 121	**Principles of Chemistry II**	5	Chem 120
ENGL 100	**Composition**	4	Next-Generation Accuplacer Reading minimum score of 250 (Classic Accuplacer, minimum of 75) or completion of READ 0090 or EAP 0095 with a C (2.0) or higher.
MATH 125	**Trigonometry**	3	MATH 120 with a grade of C or better or a score of 63 or above on the College Level Mathematics portion of the Accuplacer test.
PHYS 101	**Introductory Physics**	3	MATH 0075 with a C or higher, or a score of 56 or higher on the Arithmetic portion of the Accuplacer test.