

# Biology Associate of Science

Effective beginning Academic Year 2019-20 (Last revised March 11, 2021)

GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER 36		Course Number	Credit Hours
ENGLISH COMPOSITION AND ORAL COMMUNICATION:			3
Course 1:	Any Ohio Transfer 36 approved First Writing (TME001) course	ENGL 1100	3
MATHEMATICS, STATISTICS, AND LOGIC:			5
Course 1:	Calculus I (TMM005) <sup>1</sup>	MATH 2221	5
ARTS AND HUMANITIES:			6
+ Course 1:	Any Ohio Transfer 36 approved Arts and Humanities course	FNAR 1104 or THEA 1121	3
+ Course 2:	Any Ohio Transfer 36 approved Arts and Humanities course	PHIL 1101 or PHIL 1107	3
SOCIAL AND BEHAVIORAL SCIENCES:			6
+ Course 1:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course [Introduction to Psychology (OSS015) recommended for pre-medicine]	PSYC 1110	3
+ Course 2:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course [Introduction to Sociology (OSS021) recommended for pre-medicine]	SOCI 1170	3
NATURAL SCIENCES:			10
Course 1:	General Chemistry I with lab (OSC008)	CHEM 1151 and CHEM 1161	5
Course 2:	General Chemistry II with lab (OSC009)	CHEM 1152 and CHEM 1162	5
ADDITIONAL CREDITS: <sup>2</sup>			9
Course 1:	Any Ohio Transfer 36 approved Second Writing (TME002) course	ENGL 1102	3
Courses:	Up to 7 additional hours of Ohio Transfer 36 approved courses	COMM 1115	3
		Social and Behavioral Sciences Elective (see last page for list)	3
<b>GENERAL EDUCATION/OHIO TRANSFER 36 TOTAL:</b>			<b>39</b>

**Advising Notes:**

Where it indicates "Any Ohio Transfer 36 approved," students should work closely with their advisors.

(+) indicates that the courses chosen should be from two different areas within that category.

<sup>1</sup> A prerequisite, such as College Algebra (TMM001), may be needed for a student to reach Calculus I (TMM005). The math requirement may vary by institution, and students planning to pursue a Bachelor of Arts in Biology may only need Pre-Calculus (TMM002). Check with your academic advisor and your receiving institution to determine the appropriate mathematics course.

<sup>2</sup> Due to the variability across institutions, students should work with their academic advisor to determine an appropriate program of study and appropriate amount of additional credits to satisfy the Ohio Transfer 36.

## SPECIAL NOTES

Students with plans of pursuing a pre-professional or graduate studies track in the future should work closely with their academic advisor and receiving institution starting in the first year of their program in order to adequately prepare themselves for those types of tracks. Some pre-professional degrees include pre-medicine, pre-veterinary, pre-law, and pre-dentistry.

# Biology

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PRE-MAJOR/BEGINNING MAJOR		Course Number	Credit Hours
Course 1:	Biology I (OSC003)	BIOL 1101	5
Course 2:	Biology II (OSC004)	BIOL 1102	5
Course 3:	Calculus-based Physics I with lab (OSC016) or Algebra-based Physics I with lab (OSC014) or biology course <sup>1</sup>	PHYS 2201 and PHYS 2211 or PHYS 2221 and PHYS 2231	5
<b>PRE-MAJOR/BEGINNING MAJOR TOTAL:</b>			<b>15</b>
Advising Notes: <sup>1</sup> The amount and type of physics (calculus or non-calculus-based) required in the biological sciences varies from institution to institution. Many institutions require at least one semester of physics, others none. If physics is not a program requirement, an appropriate biology course should be selected with the guidance of your academic advisor. Please consult with your academic advisor and your receiving institution within the first year of study to determine an appropriate course of study.			

OTHER REQUIREMENTS		Course Number	Credit Hours
Courses 1 and 2:	Full-Year Sequence of Organic Chemistry with lab (OSC010) <sup>1</sup> [Not required but highly recommended for pre-medicine]	See Advisor <sup>2</sup>	0-10
Electives:	General Electives as needed (May include FYE or Orientation course) <sup>3</sup>	Arts and Humanities Elective	3
		Ohio Transfer 36 or TAG Elective <sup>4</sup>	0-3
<b>OTHER REQUIREMENTS TOTAL:</b>			<b>6-13</b>
Advising Notes: <sup>1</sup> The statewide transfer guarantee applies to the full-year sequence. All non-sequence coursework will be reviewed on a course-by-course basis by the receiving institution for transfer and application to the major. Not all institutions require Organic Chemistry, although it may be required for students who are pre-medicine. Consult with your academic advisor and your receiving institution. <sup>2</sup> Students should consult with their academic advisor for guidance on enrollment in Organic Chemistry. <sup>3</sup> Certain institutions may require two semesters or more of foreign language for Bachelor of Arts and Bachelor of Science degrees. If so, foreign language should be taken – check with your receiving institution. Additional recommended pre-major/major coursework may include courses in cell biology, microbiology, or genetics. Consult with your academic advisor and your receiving institution to determine an appropriate program of study. <sup>4</sup> Southern State requires a total of 60 credit hours for degree completion. If students do not take the recommended Organic Chemistry course sequence, they will need to complete 3 credit hours of electives. If students do take the Organic Chemistry course sequence, they do not need to take any elective credit hours.			

ASSOCIATE DEGREE	Total Credit Hours
<b>ASSOCIATE DEGREE TOTAL:</b>	<b>60-65</b>

## SPECIAL NOTES

Some bachelor-degree granting programs may be competitive and admission into the program is not guaranteed. Students should check with individual institutions for their program admission requirements.

Some bachelor-degree granting institutions require additional general education courses outside of the Ohio Transfer 36 and students may be required to take these courses in their junior or senior year. Students will still be able to follow this pathway and complete their bachelor's degree in approximately 60 additional credit hours.

For more information, please contact:

Student Success Center

studentsuccess@sscc.edu | (937) 393-3431 ext. 2825

www.sccc.edu

## SAMPLE DEGREE MAP

### FIRST YEAR

SEMESTER 1		SEMESTER 2	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
ENGL 1101 English Composition I	3	ENGL 1102 English Composition I	3
BIOL 1101 Principles of Biology I	5	BIOL 1102 Principles of Biology II	5
MATH 2221 Calculus I	5	SOCI 1170 Introduction to Sociology	3
CHEM 1151 First Year Chemistry I and CHEM 1161 First Year Chemistry Lab I	5	CHEM 1152 First Year Chemistry II and CHEM 1162 First Year Chemistry Lab II	5
<b>Total Semester 1 Credit Hours</b>	<b>18</b>	<b>Total Semester 2 Credit Hours</b>	<b>16</b>

### SECOND YEAR

SEMESTER 3		SEMESTER 4	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
PHYS 2201 General Physics I (Algebra Based) and PHYS 2211 General Physics Lab I or PHYS 2221 College Physics for Scientists and Engineers I and PHYS 2231 College Physics for Scientists and Engineers Lab I	5	FNAR 1104 Introduction to the Arts or THEA 1121 Introduction to Theatre	3
PHIL 1101 Introduction to World Philosophy or PHIL 1107 Ethics	3	COMM 1115 Fundamentals of Effective Speech	3
PSYC 1110 Principles of Psychology	3	Arts and Humanities Elective	3
Social & Behavioral Sciences Elective	3	Ohio Transfer 36 or TAG Elective	3
<b>Total Semester 3 Credit Hours</b>	<b>14</b>	<b>Total Semester 4 Credit Hours</b>	<b>12</b>

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## OHIO TRANSFER 36 ELECTIVES

Please work closely with your advisor when selecting courses.

ARTS AND HUMANITIES	Course Number	Credit Hours
Introduction to Literature	ENGL 2201	3
The Great American Novel	ENGL 2202	3
Women's Literature	ENGL 2207	3
Readings in Early British Literature	ENGL 2217	3
Readings in Later British Literature	ENGL 2218	3
American Literature to 1865	ENGL 2230	3
American Literature after 1865	ENGL 2235	3
Contemporary World Literature: The Novel (1945 to present)	ENGL 2236	3
Introduction to Film	ENGL 2240	3
Film History	ENGL 2241	3
Classical & World Mythology	ENGL 2246	3
Critical and Cultural Approaches to the Fairytale	ENGL 2247	3
Introduction to the Arts	FNAR 1104	3
History of Art I	FNAR 1111	3
History of Art II	FNAR 1112	3
Music Appreciation I	FNAR 1116	3
Music Appreciation II	FNAR 1117	3
Introduction to World Philosophy	PHIL 1101	3
Introduction to Western Philosophy	PHIL 1102	3
Ethics	PHIL 1107	3
Introduction to Theatre	THEA 1121	3

SOCIAL AND BEHAVIORAL SCIENCES	Course Number	Credit Hours
Principles of Microeconomics	ECON 2205	3
Principles of Macroeconomics	ECON 2206	3
American History I	HIST 1110	3
American History II	HIST 1111	3
African American History	HIST 1130	3
American Women's History	HIST 1140	3
Introduction to Western Civilization I	HIST 1151	3
Introduction to Western Civilization II	HIST 1152	3
American Government (The American Democracy I)	PSCI 1104	3
American Government (The American Democracy II)	PSCI 1105	3
Principles of Psychology	PSYC 1110	3
Introduction to Diversity	SOCI 1107	3
Introduction to Sociology	SOCI 1170	3