

Biology – Associate of Science

The Associate of Science with an emphasis in Biological Science at NCCC offers undergraduate training in biology. Emphasis may include botany and zoology, as well as preparation for professional schools such as nursing, allied health, pre-med, and veterinary medicine.

Prerequisites

The student will need to demonstrate proficiencies in reading, English, and mathematics based on the COMPASS assessment test, ACT or SAT scores, or by taking the recommended/required classes. Some of the courses in this curriculum have specific prerequisites.

General Education (GE) Courses

In order to graduate with a college degree, all students are required to take certain general education courses. These include English composition, speech, wellness, science, art and humanities, mathematics, computer systems, and social and behavioral science.

Program Core Courses

BIOL 251/252 Biology I/Lab, CHEM 125/126 College Chemistry I/Lab, BIOL 255/256 Biology II/Lab, CHEM 135/136 College Chemistry II/Lab, MATH 150 Analytic Geometry and Calculus I.

Program Elective Courses

BIOL 106 Topics in Kansas Nature Studies, BIOL 115/116 Environmental Life Sciences/Lab, BIOL 205 Prehistoric Life, BIOL 217 Seminar in Applied Biological Sciences, BIOL 231 Animal Behavior, BIOL 299 Independent Study, PHYS 100/130 Introductory College Physics I/Lab.

Program Outcomes

Students will develop an understanding of the following:

1. Scientific method and the history of science.
2. Metric system and microscopy.
3. Basic chemistry of life.
4. Cellular structures and functions.
5. Mitosis and meiosis.
6. Patterns of inheritance.
7. Cellular respiration and photosynthesis.
8. Organismal classification.
9. Principles of ecology.

Course Sequence

The listing that follows is a recommended sequence of courses for full-time students. The student should consult with an advisor for information specific to their academic situation.

Biology – Associate of Science Recommended Sequence of Courses

(Fall) Semester I		Cr Hrs
BIOL 251	Biology I	3
BIOL 252	Biology I Lab	2
PSYC 100	First Year Seminar	1
ENGL 101	English Composition I	3
MATH 113	College Algebra	3
	Social/Behavioral Science Elective	3
Total		15

(Spring) Semester II		
BIOL 255	Biology II	3
BIOL 256	Biology II Lab	2
ENGL 289	English Composition II	3
HPER 150	Lifetime Fitness	1
CSIS 100/130	Computer Concepts and Applications or Intro to Computer Information Systems	3
	Arts/Humanities Elective	3
	Arts/Humanities Elective	3
Total		18

(Fall) Semester III		
MATH 150	Analytic Geometry and Calculus I	5
PSYC 155	General Psychology	3
COMM 207	Fundamentals of Speech	3
CHEM 125	College Chemistry I	3
CHEM 126	College Chemistry I Lab	2
Total		16

(Spring) Semester IV		
	Program Elective	5
CHEM 135	College Chemistry II	3
CHEM 136	College Chemistry II Lab	2
	Social/Behavioral Science Elective	3
	Arts/Humanities Elective	3
Total		16

Total Program Credits **65**

For more information contact:

Program advisors

Steve Yuza, 620-431-2820, ext. 242

syuza@neosho.edu

Sarah McCoy, 620-431-2820, ext. 266

smccoy@neosho.edu

Michael Campbell, 785-242-2067, ext. 328

mcampbell@neosho.edu