

BIOLOGICAL SCIENCE

ASSOCIATE IN SCIENCE DEGREE AND CERTIFICATE PROGRAMS

Study how living things work

Biological Sciences is an exciting and rapidly changing field of study. The study of living things has undergone tremendous expansion in recent years. The Biological Sciences program provides an ideal and flexible path for students to begin their educational journey in this field. The program emphasizes the practical knowledge and skills required for employment and for continuing education in the Biological Sciences.

"For me, KVCC is close to home, and the price is right. I also love the modern labs, and how much hands-on time I have in my biology class."

"I chose KVCC because of the small classes, and the flexible scheduling options. The cost was also very reasonable."



What Biological Science graduates do:

- Collect and process samples
- Perform lab tests
- Collect and analyze data
- Develop and conduct experiments
- Provide technical Assistance
- Maintain lab equipment
- Work in teams

Career Opportunities:

- Biotechnology production facilities
- Quality control and assurance
- Research laboratories
- Government agencies

For further questions about this program, please contact:

bio@kvcc.me.edu or go to: www.kvcc.me.edu/bio

BIOLOGICAL SCIENCE

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Associate in Science Degree

<i>First Semester</i>		<i>Third Semester</i>		
BIO101	Biology I	4	BIO201 Laboratory Techniques	3
CHE112	General Chemistry I	4	BIO234 Introduction to Molecular Biology	
ENG101	College Composition	3	and Biochemistry	3
MAT117	College Algebra	3	PHI102 Contemporary Ethics	3
<i>Second Semester</i>			_____ Humanities Elective	3
BIO102	Biology II	4	_____ 200 Level Math Elective	4
CHE115	General Chemistry II	4	<i>Fourth Semester</i>	
COM104	Introduction to Communication OR		BIO219 Microbiology	4
COM105	Interpersonal Communication	3	MAT220 Applied Statistics	4
ENG218	Advanced Academic Writing	3	_____ 200 Level Science Elective	3-4
_____	200 Level Math Elective	4	_____ Social Science Elective	3
			Total Credits	62-63

Health Science Preparation Certificate

<i>First Semester</i>		<i>Second Semester</i>		
BIO213	Anatomy and Physiology I	4	BIO214 Anatomy and Physiology II	4
COM104	Introduction to Communication	3	PSY101 Introduction to Psychology	3
ENG101	College Composition	3	_____ Humanities Elective	3
MAT1__	Math Elective	3	_____ Health Science Elective	3-4
			Total Credits	26-27

CRITERIA FOR GRADUATION

Students must complete 60-63 credits in the Biological Science degree or 26-27 credits in the Health Science Preparation certificate and achieve a minimum grade of "C" in all courses. Students must attain a final GPA of 2.0 or higher.

GAINFUL EMPLOYMENT

For more information about the Health Science Preparation Certificate's graduation rates, the median debt of students who completed the program, and other important information, please go to <http://www.kvcc.me.edu/pages/general/gainful-employment>.

BIOLOGICAL SCIENCE

Associate in Science Degree, Certificate

DESCRIPTION

The Biological Science AS degree provides students with strong knowledge base in the life sciences additional to the skills relevant to a variety of employment opportunities. Emphasis is placed on the scientific method and critical analysis for students who wish to transfer to a Biology program at a Baccalaureate degree institution. This 60-credit program develops an understanding of biological principles which underlie all living things, instills a sense of inquiry, and sharpens analytical thinking skills.

The Health Science Preparation Certificate program prepares graduates for transfer into a two or four-year health degree program. The certificate program will provide students with a learning community as they prepare for transfer to various health programs. The program is structured to encourage career exploration and provide career guidance opportunities for the students as they prepare to apply to a health degree program.

PROGRAM MISSION

The mission of the Associate in Science in Biological Sciences is to provide a strong foundation in science, mathematics and laboratory skills, preparing the student for transfer to a four-year Biology or health-related degree program. The program prepares students for an entry-level lab technician or other science-related position.

EDUCATIONAL OUTCOMES

Program Goals and Student Learning Outcomes

Upon successful completion of the Biological Science degree, the graduate is expected to:

1. Apply methods of scientific inquiry in biology.
2. Demonstrate appropriate laboratory techniques and mastery of basic laboratory skills.
3. Effectively convey, both orally and in writing, a knowledge of biological content, methods, and issues.
4. Locate, critically analyze, interpret, and discuss primary research literature within the biological sciences.
5. Demonstrate critical thinking, problem solving, data gathering and analysis, and interpretation of results to address practical questions in biology. With an associate degree in Biology you'll have a head start toward a bachelor's degree in biology.

Upon successful completion of the Health Science Preparation certificate, the graduate is expected to:

1. Develop a foundation of learning skills, including communication, critical thinking, problem solving and interpersonal skills.
2. Develop meaningful connections with the college community to achieve academic and personal potential.
3. Gain the confidence, competence, and commitment necessary to progress toward completion of a two or four-year health degree program.

ADMISSION REQUIREMENTS

Please refer to the General Admission Requirements. Additional requirements include successful completion of high school Biology or chemistry and high school algebra with a minimum grade of a "C".

