

## Biological Sciences Career Exploration Track

### Major Description:

Are planning for a career in Medicine, Dentistry, Optometry, Pharmacy, Physician’s Assistant, Physical Therapy, or Veterinary Medicine? Or maybe your interest is in Forensic Science, Conservation, or Aquatic Ecology? Or do you have a passion for working with plants or animals?

The NKU Biological Sciences Program offers a solid foundational program that will help you reach your goals! Our innovative teaching and research labs are equipped to train you on state-of-the-art equipment. We have experiential learning through internships, practicums, and professional shadowing. You can study anatomy of the human body with our cadaver-based courses or try a unique biology study abroad course to Costa Rica, Belize, or Sweden. You can take courses or conduct experiments at the NKU Research and Educational Field State that includes a variety of woodland and wetland habitats. You can collaborate with faculty on real-world research in the field or in the laboratory. Student researchers present their findings at regional, national, and international conferences.

### Course Plan:

Semester	Course
1 <sup>st</sup> Semester	BIO 150/L, Intro to BIO I with lab
2 <sup>nd</sup> Semester	BIO 151/L, Intro to BIO II with lab
3 <sup>rd</sup> Semester	CHE 120/L, General Chemistry I with lab
4 <sup>th</sup> Semester	CHE 121/L, General Chemistry II with lab

### Course Descriptions:

**BIO 150: Intro to Biology I (4 credits)**

*Prerequisite(s):* Math ACT of 22 or higher (or equivalent placement), P in [MAT 101](#), or C- or better or higher in [MAT 102](#) or higher.

*Co-requisite(s):* [BIO 150L](#).

The chemistry of life; cell structure and function; photosynthesis and respiration; cellular reproduction and Mendelian genetics; gene regulation and DNA technology. Suggested only for students majoring or minoring in biological sciences, other natural sciences or other preprofessional programs.

*General Education Credit: Natural Science*

**BIO 150L: Intro to Biology I Lab (0 credits)**

*Co-requisite(s):* [BIO 150](#).

Laboratory to accompany [BIO 150](#).

*General Education Credit: Natural Science*

**BIO 151: Intro to Biology II (4 cr)**

*Prerequisite(s):* [BIO 150](#) with a C- or better.

*Co-requisite(s):* [BIO 151L](#).

Population genetics and evolution; systematic and diversity of life; organismal systems anatomy and physiology; interrelationships among organisms and between organisms and their environment.

**BIO 151L: Intro to Biology II Lab (0 credits)**

*Co-requisite(s):* [BIO 151](#).

Laboratory to accompany [BIO 151](#).

Course Descriptions:

CHE 120: General Chemistry I (3 credits)

Prerequisite(s): High school chemistry and Math ACT of 23 (or equivalent placement) or higher or able to enroll in [MAT 103](#) or equivalent; OR a B- or better in [CHE 102](#).

Co-requisite(s): [CHE 120L](#).

Taught: Fall and spring

Principles of chemistry; physical and chemical properties of elements and compounds.

General Education Credit: Natural Science

CHE 120L: General Chemistry I Lab (1 credit)

Hours: 0 classroom + 3 lab/studio

Co-requisite(s): [CHE 120](#).

Taught: Fall and spring

Experiments describing principles of chemistry as well as those describing physical and chemical properties of elements and compounds.

General Education Credit: Natural Science

CHE 121: General Chemistry II (3 credits)

Prerequisite(s): C- or better in [CHE 120](#) or CHE 120H.

Taught: Spring and summer

Continuation of [CHE 120](#). Enrollment in [CHE 121L](#) is strongly encouraged but is not required.

CHE 121L: General Chemistry II Lab (1 credit)

Prerequisite(s): C- or better in [CHE 120L](#) or CHE 120HL.

Prerequisite OR Co-requisite: [CHE 121](#).

Taught: Spring and summer

Continuation of [CHE 120L](#).

Links:

[Biological Sciences Program Website](#)