Biological Sciences

Major Overview:
Biologists help us to better understand the needs of our planet and its inhabitants, and to discover the solutions to the problems facing both. The Biological Sciences department at Binghamton University provides students with a comprehensive education in biology, as well as the opportunity to explore many other related sciences. The curriculum is designed for students to develop the ability to carry out scientific investigation, understand and critically evaluate biological information, discuss and communicate biological concepts accurately, effectively and concisely and apply biological training to careers. These learning outcomes are achieved through a set of core courses in cell biology, molecular genetics, ecology and evolution, as well as fundamental courses in other core disciplines of biology.

Research Areas:
Opportunities for Student Internships/Research: Students who work in professors’ research programs are enrolled in Biology 497. This is a one-on-one learning experience, so space in the laboratory is limited.

Refer to the research, teaching and other work experience page for more information on how to enter a professor’s research program. [http://www.binghamton.edu/biology/undergraduate/research-teaching-other/index.html]

Post-Graduation:
Students majoring in biological sciences develop important critical thinking, analytical, and laboratory skills. There are many potential careers open to students who major in biology. Well-known career paths include: K-12 educator; college or university professor; informal educator at zoos, aquariums, museums, etc. The biology major also lays the groundwork for a career in many health professions. Other potential career fields include: agricultural and food sciences; bioengineering; bioethics; bioinformatics/computational biology; environmental conservation; food science; forensic science; genetic counseling; and many others.

Visit the biology undergraduate website for more information on potential careers. [http://www.binghamton.edu/biology/undergraduate/advising/careers.html]

For more resources and information on this major, please refer:

• Binghamton University Biology Department [http://www.binghamton.edu/biology/index.html]
Courses:
Courses to Consider:
BIOL 117 Intro to Organismal and Population Biology
BIOL 118 Intro to Cell and Molecular Biology
CHEM 107 Intro to Chem Principles I (Fall only)
CHEM 108 Intro to Chem Principles II (Spring only)
MATH 147 or 148 Elementary Statistics

*It is recommended that students enroll in no more than two courses per semester in the Science and Mathematics Division during their first semester or two. Access the University Bulletin for an in-depth description of each course.

Thank you.

For more information contact the Biological Sciences Department:
607-777-22438