INTEGRATIVE SCIENCE, B.S. (BERKS)

Begin Campus: Any Penn State Campus

End Campus: Berks

Program Learning Objectives

- **Biology Concepts**: Students will demonstrate a thorough understanding of biological concepts including cellular organization, genetics, ecology, and physiology.

- **Chemistry Knowledge**: Students will demonstrate a thorough understanding of general and organic chemistry.

- **Communication**: Students will disseminate scientific findings via oral and written communication.

- **Data Analysis**: Students will demonstrate ability to retrieve and analyze scientific data.

- **Ethics**: Students will apply ethical principles to specific areas of scientific research and scientifically important applications with sociological consequences such as clinical trials, animal testing, and environmental concerns.

- **Laboratory Skills**: Students will demonstrate appropriate laboratory skills including scientific technique, maintenance of a laboratory notebook, writing laboratory reports, and adhering to all safety procedures.

- **Scientific Concepts**: Students will demonstrate specific understanding of fundamental scientific concepts including, but not limited to, experimental results, theory development, chemical reactions, physical processes, and cellular function.

- **Scientific Literature**: Students will be able to comprehend and critically interpret primary scientific literature.