

# INTEGRATIVE SCIENCE, B.S. (BERKS)

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**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.