



Science

The goals of Ursuline's Science Department are grounded in faculty enthusiasm, knowledge, and concern for students. A graduate of Ursuline Academy will be empowered to:

- Develop an appreciation for and understanding of the interrelationships among science, technology, and our society
- Pursue a career based in science
- Make decisions that are evidence-based, reflecting an understanding of the scientific enterprise

The state of Ohio requires three years of science including a course in Biology and Chemistry. Ursuline's science department recommends four years, including courses in Biology, Chemistry, and Physics as well as an elective according to personal interest.

Required Courses

Biology is designed to enable the student to understand and appreciate the living world around her. Students will use strategies of inquiry learning to explore scientific practices.

Chemistry is the study of matter, its properties, and transformations. Students will develop problem-solving skills through the integration of logical reasoning, analytical laboratory investigations and technology.

Electives* (available upon completion of Biology & Chemistry)

Physics seeks to explain rules governing the behavior of the universe, including the study of motion, forces, energy, momentum, sound, light, electricity, and magnetism.

Human Anatomy and Physiology is an active study of the human body and how it functions.

Biotechnology/Microbiology introduces students to techniques used in biotechnology through the study of microbiology

Forensic Science is an application of the tools of scientific inquiry to criminal and civil law and incorporates many physical, biological, and social science, technology, and engineering fields.

Advanced Placement courses in Biology, Chemistry, Environmental Science, and Physics offer students the opportunity to explore and expand their interest in science through college level content and laboratory investigation. Each course is uniquely challenging and inspiring.

Introduction to Engineering introduces students to the most common fields of engineering and the skills needed to be a successful engineer through a variety of hands-on projects.

*Course offerings may vary by year depending on student interest

Other Opportunities

MedEx

Earth Action Team

Animal Rights Initiative

Student Lab Assistants