



Science at Saint Ignatius

All students are required to take Biology, Chemistry, and Physics. Freshmen may apply for Honors Biology or Health Science Biology (admission is dependent on test results). **Course offerings include:**

Grade 9: Biology or Honors Biology (elective)

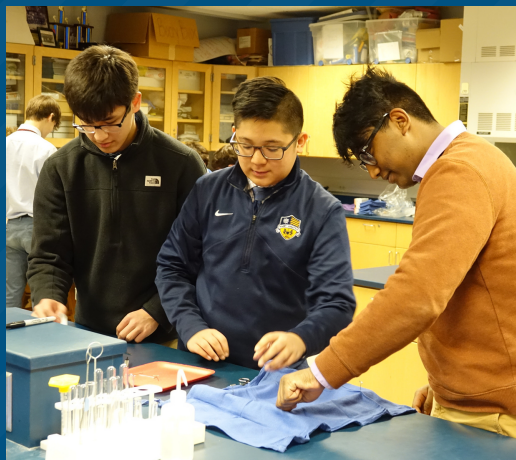
Grade 10: Chemistry or Honors Chemistry

Grade 11: Physics, Honors Physics, or AP Physics C
OR

Elective: AP Bio; AP Chem; Anatomy and Physiology; Marine Science, Environmental Science

Grade 12: Physics, Honors Physics, or AP Physics C
OR

Elective: AP Bio; AP Chem; Anatomy and Physiology; Marine Science, Environmental Science





Science at Saint Ignatius

Science Labs

- 13 state of the art universal lab/classrooms
- 12 lab stations per room
- 1 handicap lab station per room
- Vernier lab probe interfaces for all Biology and Chemistry classes.
- PASCO and Vernier lab probe interfaces for Physics
- Interfaces and equipment are the same used in major universities
- Ceiling mounted LCD projectors and sound system interfaced to student and teacher devices
- Simulation software for Biology, Chemistry, and Physics

Case Western & Cleveland Clinic Internships

- These occur during summers between Sophomore and Senior years for Case Western and between Junior and Senior years for the Cleveland Clinic (students must be 16 and older to work in the labs).
- Students carry out state-of-the-art medical research with doctors and researchers.
- Students provide a presentation of their work in PowerPoint or in Poster format.
- Case-Western internships (exclusive to Ignatius) are offered through the Science Department.
- Cleveland Clinic internships are selected by the Cleveland Clinic from student applicants.
- NASA internships are offered through the school and chosen by the NASA administration



Science at Saint Ignatius

Science Olympiad

- Top ten finisher at the State Tournament over the last 7 years
- Runner up at Lorain Regional Competition for 2014
- Competition includes 23 events covering a wide range of topics in Science and Engineering

Contact Mr. Tom Bogen at tbogen@ignatius.edu for more information
www.ignatius.edu/science-olympiad

Pre-Med Society

The Pre-Med Society is a club designed to inform, promote, and build knowledge for those students (9th-12th grade) interested in a profession in the healthcare field. Twice a month (Wednesdays) the group meets to enjoy talks given by healthcare professionals ranging from various fields of medicine, and to participate in hands-on medical techniques (blood pressure, suturing, heart rhythms, etc). All fields in the health sciences are explored.

Volunteer and shadow opportunities are made available through MedWorks and the Steering Committee professionals. Emphasis is placed on social justice.

Health Sciences Program

The Health Sciences program is a comprehensive pro-gram that introduces the student to a myriad of topics in the medical field (including medical research). The core curriculum includes five years of science courses and participation in specific extracurricula activities.



Science at Saint Ignatius

Robotics Club

- Students learn to design, build, and operate sophisticated robotic remote-controlled and autonomous devices to solve contest problems.
- Students build electronics circuit boards, learn to use hand and power tools.
- C and C++ Programming, Parallax Basic, and CAD/CAM available on campus.
- Science Olympiad robotics; CWRU Lego Robotics contest; US FIRST Robotics and VEX contest.

Contact Mr. Bob Ward at bward@ignatius.edu for more information

Engineering Society

This group meets once a month to hear lectures from local professionals and alumni discuss advances in all areas of engineering (bioengineering, chemical engineering, mechanical, aerospace, etc.) as well as career opportunities in both these and emerging fields.

The Society is open to students of all four years.

