

Science Department

Encouraging critical thinking

The Cathedral High School Science Department combines classroom analytics with real-world experiences designed to engage students' cognitive skills and challenge them to think critically.

Technology integration

Technology is integrated into science classes and labs, and faculty members seek opportunities and partnerships that expand on traditional coursework.

Partnerships and grants

Cathedral's partnership with the Purdue University Science Express program allows students to utilize a wide variety of equipment that would not ordinarily be available to high school students.

A greenhouse was built in 2010 through a grant written and awarded to teacher Dawn Gilmore. Curricula is being created for environmental and biology class use of the greenhouse.



College and career readiness

Cathedral students are prepared for the rigors of college science courses and are encouraged to consider post-graduate study in medicine, research, chemistry, physics, engineering, and a myriad of other science-based careers.

Levels of instruction

- Academic (grades 9-12)
- Honors (grades 9-12)
- Advanced Placement and International Baccalaureate (grades 10-12)





What is STEM?

STEM stands for Science, Technology, Engineering, and Math. STEM is a philosophy of education that values experiential learning, cultivates creativity, and brings real-world problem solving into the classroom.

What STEM means for Cathedral

Cathedral is currently in the process of incorporating more STEM-related material and ideals into each of our science classes by emphasizing Problem-Based Learning, Inquiry Labs, and real-world connections. At the moment, Cathedral offers students a chance to be exposed to these principles in our STEM I class.

Science courses offered

- Advanced Physics (college credit)
- Anatomy & Physiology I, II, & III
- AP Biology
- AP Chemistry
- AP Environmental Science
- Astronomy
- Biology
- Biology, IB
- Chemistry
- Computer Programming
- Environmental Science
- Forensics
- Organic Chemistry
- Physical Science
- Physics
- Physics, IB
- Pre-engineering I, III, & III
- Robotics
- Scientific Research
- Sports, Exercise & Health Science, IB
- STEM I & II
- Zoology

Science clubs and activities

- Science Olympiad
- Society of Student Scientists
- CTEC
- Gardening Club
- Green Team