ST. JOSEPH'S ACADEMY

COMPUTER SCIENCE, ENGINEERING, & TECHNOLOGY

St. Joseph's Academy enjoys a long history of excellence in STEM and continues to expand hands-on learning opportunities in science, technology, engineering and math, both inside and outside the classroom. The Computer Science and Engineering (CSE) Department, together with the Technology Office, provides advanced curriculum options and co-curricular programs with dedicated spaces and tools for innovation. In 2020, St. Joe introduced The Weidert Center for Integrated Science, a state-of-the-art facility for work in science, technology, engineering and math.

COMPUTER SCIENCE & ENGINEERING DEPARTMENT

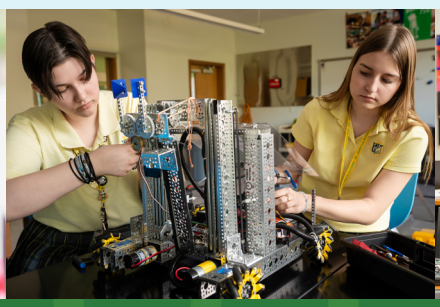
The goal of the Computer Science & Engineering Department is to provide students with courses that develop the 21 st century skills needed to be ready for college and beyond. With the help of community partners like Boeing, GFI Digital, and e-Nabling the Future, students are able to apply concepts learned in the classroom to real-world projects.

One credit in CSE is required for graduation. All freshmen are required to take CSE Computer Science Applications (.5 credit course), and students may select from a variety of CSE courses, including Broadcast Media, Intro to AI, video production, digital photography, graphic design, engineering and computer language courses to fulfill the other .5 credit. AP and dual enrollment (ACP) course opportunities are available.

JOEBOTICS

JoeBotics, St. Joseph's Academy's robotics program, was established in the 2013-2014 school year, and consists of two all-girls teams competing at the FIRST Technical Challenge level. Each year, FTC presents a new game for the season, and the team works together to design, build, program, and test a robot to meet the challenges of the game. During the first eight years of the JoeBotics program, the team advanced to the Missouri State Championship seven times and won numerous individual and team awards. For the ninth JoeBotics season, the program expanded to include a second team. Last year, one SJA team won the prestigious Innovate Award.







COMPUTER ESSENTIALS AND OPERATING SYSTEMS WITH INTERNSHIP

In 2025, SJA established a partnership with Dell Technologies to offer the first technician certification courses in the state of Missouri, in conjunction with an internship at the Student Help Desk in the Technology Office.

DELL Technologies
COURSE CERTIFICATE - OF - COMPLETION

Course Description:

- diagnose and repair hardware issues, specifically for Dell laptops
- identify the components of a laptop and fix common malfunctions
- learn troubleshooting techniques for Microsoft and Google products
- develop problem-solving abilities in operating systems and applications
- practice skills and learn customer service through an internship in the Technology Office

Students who choose additional semesters of the CEOS course can pursue independent study of tech-related content, such as game design or cybersecurity, and can earn further certification.

MEET THE COMPUTER SCIENCE AND ENGINEERING FACULTY



CARRIE HILL
CSE
Department Chair



JOHN GUNDY
CSE
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RYAN PALUCZAK
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MEGAN SMITH
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MEET THE TECHNOLOGY STAFF



TRAVIS ROGERS
Director of
Technology



BEN ROBERT
Assistant Director
of Technology

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