

Resurrection College Prep
STREAM Program...
LEARN BY DOING!!!



STREAM Program

Mission Statement

The **Resurrection College Prep STREAM Program** fosters a dynamic, interdisciplinary learning experience that empowers young women to explore Science, Technology, Religion, Engineering, Arts, and Mathematics through a LaSallian and Catholic worldview. Rooted in curiosity, creativity, and critical thinking, our program encourages students to engage in meaningful inquiry, ethical innovation, and collaborative problem-solving. By integrating knowledge, discovery and faith, we cultivate leaders who are prepared to shape the world with wisdom, compassion, and integrity.

Vision Statement

The **Resurrection College Prep STREAM Program** envisions a future where young women are confident, capable, and inspired to pursue knowledge across disciplines. Through hands-on exploration, cross-curricular collaboration, and real-world application, we seek to develop lifelong learners who embrace challenges with curiosity and resilience. Guided by Catholic values and LaSallian principles, our students will emerge as innovators, advocates, and ethical leaders who contribute to society through intellect, service and faith.

At Resurrection College Prep, our STREAM program prepares young women for the rigors of college and the evolving demands of careers that require adaptability, creativity, and problem-solving. By integrating Science, Technology, Religion, Engineering, Arts, and Mathematics, we cultivate critical thinking, innovation, and ethical leadership. Hands-on projects and collaborative challenges empower our students to apply their knowledge in real-world contexts, building confidence and resilience in an ever-changing world.

As technology and global industries rapidly evolve, our STREAM curriculum ensures that students develop the agility and intellect needed to thrive in fields such as scientific research, environmental science, engineering, healthcare, and digital technology. We envision our STREAM graduates as forward-thinking leaders who embrace continuous learning and boldly navigate complex challenges, ready to shape the future with knowledge, integrity, and ingenuity.

Mr. Christopher Hawker

Director of STREAM

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Course Description

STREAM I HONORS

Grades 9, 10 Two Semesters

Prerequisites: Interest Survey and Entrance Exam

STREAM I Honors: Foundations is the introductory course in the STREAM program, designed to expose students to the intersection of science, technology, religion, engineering, arts and mathematics. This course investigates the engineering design process as well as the scientific inquiry process. Upon completion of this course, proficient students are able to demonstrate their mastery of the engineering design process, the scientific inquiry process, and the problem-based learning process.



Students will engage in open inquiry research to develop meaningful questions, define problem scenarios and scientific investigations. Through these processes, students will develop fundamental design solutions, apply basic mathematical modeling and data analysis, and effectively communicate solutions and scientific explanations to others. STREAM I Honors: Foundations applies liberal arts disciplines to provide meaning and depth to the content. Through STREAM I Honors: Foundations, students will develop invaluable skills, focusing on leadership, problem solving, team

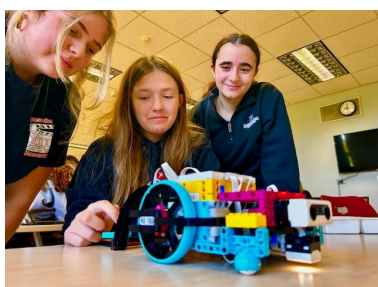


building, creativity, and communication. **All STREAM I Honors students are expected to participate in the annual STREAM symposium held in April.**

STREAM II HONORS

Grades 10, 11 Two Semesters

Prerequisites: 85% or higher in STREAM I and teacher recommendation



STREAM II Honors: Applications is a project-based, mission-centered learning experience with a focus on robotics, computer science and coding for students who wish to further explore the dynamic range of STREAM fields introduced in STREAM I. Building on the content and critical thinking frameworks of STREAM I, this course challenges students to apply the scientific inquiry and engineering design processes from a Catholic worldview to more in-depth and complex projects selected by the student. Programming simple robotic devices forms the core of the first semester in STREAM II. In the second semester, students are challenged to develop a mobile device

application, rooted in Catholic social justice principles, intended to respond to a need in the broader community. STREAM II builds upon the problem-solving and engineering design processes skills developed in STREAM I as the students ask questions, test hypotheses, model solutions and communicate results. Upon completion of this course, proficient students will have a thorough understanding of how working professionals research problems and methodically apply STREAM knowledge and skills, and will be able to present and defend explanations and engineering design solutions to STREAM related scenarios beyond their local experiences. All projects will reflect interdisciplinary integration. **All STREAM II Honors students are expected to participate in the annual STREAM Symposium held in April.**



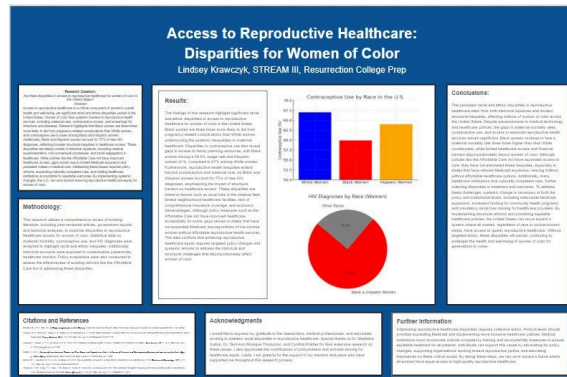
STREAM III: AP Seminar

Advanced Placement

Grade 11, 12 Two Semesters

Prerequisites: 85% or higher in STREAM II and teacher recommendation

AP Seminar serves as the third course of the STREAM sequence at Resurrection College Prep, building on the problem-solving, engineering design, and research foundations developed in STREAM I and II. In this third course, students shift from hands-on experimentation to advanced inquiry, learning to investigate complex, real-world issues through diverse perspectives and credible evidence. They engage in sustained research, collaborative dialogue, and formal argumentation, culminating in both team-based and individual performance tasks that mirror college-level expectations. Through AP Seminar, STREAM students strengthen their ability to question, analyze, communicate, and create—skills that empower them to become confident researchers, ethical problem-solvers, and thoughtful leaders in an increasingly interconnected world. **This is an AP level course. A summer STREAM III assignment is an expected component of this course. All STREAM III students are expected to participate in the annual STREAM Symposium held in April.**



STREAM IV: AP Research

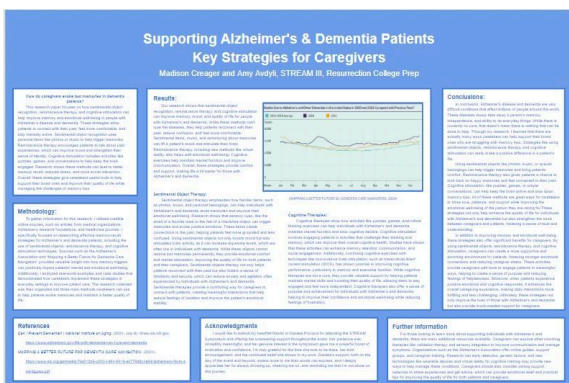
Advanced Placement

Grade 12 Two Semesters

Prerequisites: 85% or higher in STREAM II and teacher recommendation

STREAM IV: AP Research is the fourth and final course in the STREAM Program. This course builds upon the skills and experiences of STREAM I and STREAM II, as well as AP Seminar, and challenges students to deeply explore a topic, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Since this project involves a significant amount of independent work, students will work closely with an assigned mentor. The mentor will be selected by the student and the STREAM instructor and

must be connected to the student's research project. Throughout STREAM IV, students will use the principles of scientific inquiry and the engineering design process as they learn research methodology, employ ethical research practices, and access, analyze, and synthesize information; each project will be rooted in Catholic social justice principles. Students are expected to reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a reflection portfolio. The course culminates in an academic paper and artifact as well as a presentation with an oral defense. **This is an AP level course. A summer STREAM IV assignment is an expected component of this course.**



All STREAM IV students are expected to participate in the annual STREAM Symposium held in April.