

Program Budget

Planning Phase

5 teachers @ \$1,000 /week for 2 weeks \$10,000

Laboratory Phase

Middle School Science Laboratory – creation & equipment \$ 88,600.00
Dedicated Physics Laboratory – creation \$181,056.00
Equipment for physics laboratory \$ 36,236.00
Equipment for chemistry laboratory \$ 69,635.00+
Equipment for biology laboratory \$ 38,363.00
Equipment for Mathematics \$ 30,000.00

Robotics Club

\$20,000

Lower School

Science, Math and Technology equipment \$64,544

Air Conditioning

Dooley & School House Buildings \$946,566

Training Phase

5 teachers @ \$1,000/week for 2 weeks \$10,000

Evaluation Phase

5 teachers @ \$1,000/week for 1 week \$ 5,000

Total Project

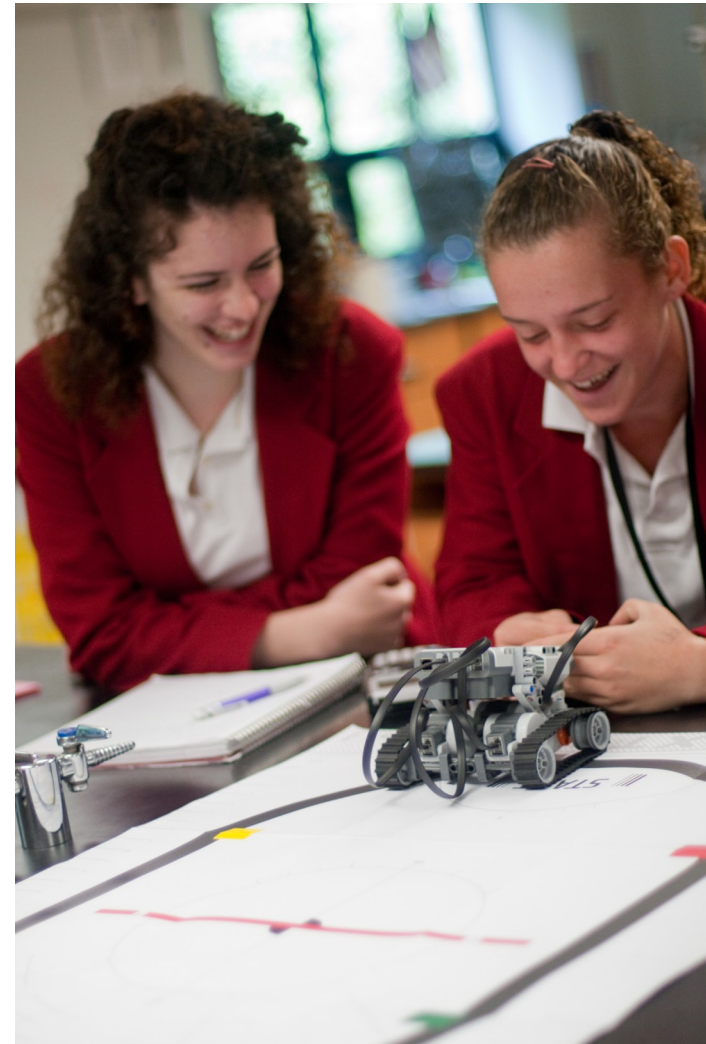
\$1,500,000

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STEM Program Project Outline

Technology and Education...

Most students enrolling at Sacred Heart today come to the school as digital natives. Long before a student begins to read in Kindergarten, she is on the computer playing games and practicing hand-eye coordination. By second grade, she knows how to use the keyboard, manipulate digital illustrations, and create a basic power point. By the time a Sacred Heart student begins middle school, she will be comfortable using technology as an academic and social tool.



Because of the pervasiveness and importance of technology in today's world, CDSSH would like to further incorporate technology into the math and science curriculums by officially implementing an integrated science, technology, engineering, and math (STEM) program.

The precedent for this program is Sacred Heart's successful Integrated Humanities program. The Integrated Humanities program has coordinated themes and subjects across the disciplines of English, history, art, language, and music. The program enhances learning by allowing students to understand these subjects in their full complexity.



What is a STEM program?

A STEM program is an integrated academic curriculum. A STEM program offers students a more complete understanding of the subjects it incorporates (science, technology, engineering, and math) by demonstrating to students how these disciplines are related to and dependant upon one another.

STEM programs are currently being implemented by many major colleges and universities. The idea behind a STEM program is that students will be better prepared for careers in the technological sector if they are provided with the most rigorous and comprehensive education possible.

Sacred Heart's STEM program will affect the school-wide curriculum, beginning with our youngest students in Kindergarten.



STEM and Sacred Heart...

Sacred Heart is interested in implementing a STEM program as part of the *One Heart One Vision* campaign because the school leadership has identified a need for such a program amongst our students as well as in the world at large.

Presently, a relatively small number of Sacred Heart graduates choose to pursue careers in STEM fields. We believe that there is additional technological talent in our student body and we would like to see more of our graduates realize their potential in these traditionally male-dominated disciplines.

There is also a growing need for capable engineers, mathematicians, and computer scientists in the U.S. work force. According to the Delaware Valley Industrial Resource Center, a staggering number of technological workers are expected to retire within the next decade.

This is a concern because it is thought that there are not currently enough young people majoring in technological fields to replace the expected retirees. Without well-trained personnel in STEM disciplines, the American workforce will not remain competitive in these fields.

How will the program be implemented?

Implementing the STEM program will involve re-working the current curriculum to include engineering. It will also require many capital improvements.

In order to implement the STEM program, Sacred Heart will...

- Create a dedicated Physics laboratory
- Create a new Middle School science laboratory
- Renovate the Upper School laboratories
- Air-condition the Dooley building
- Evaluate and refine the curriculum annually.

