



# Riley Engineering Fact Sheet

“Look around, the only thing not designed by somebody is nature” -Dave Kelly, IDEO **Wherever you look, technology and engineering is present.** Engineers have been involved in the creation of every man-made object used worldwide. Customers don’t interact with an engineer to use what that engineer has designed; because of this, Engineering is known as the stealth profession. The technology and engineering magnet at Riley seeks to expose students to the technology and engineering of the world through **project-based** instruction.

The **engineering magnet** is nationally certified as an **Innovation High School** through Project Lead the Way (PLTW). PLTW is the leading provider of rigorous and innovative Science, Technology, Engineering, and Mathematics (STEM) curricular programs in the United States. Riley’s PLTW certification allows students to earn up to **12 college credits** and **multiple scholarship opportunities** only awarded to PLTW graduates! Students in the Riley magnet programs create, design, build, discover, collaborate with peers and engineers, and solve problems while applying what they learn in math and science. Engineering magnet students can become industry-recognized **Autodesk Inventor Certified Users.**

Students are challenged by *focused, project based*, standards and industry-driven courses that will prepare students for any future endeavor!

- ◆ Over half of students select Engineering as their college major
- ◆ 12 credit hours of dual credit
- ◆ 9 College Board AP® courses available
- ◆ Industry recognized Autodesk Inventor Certified User Certification
- ◆ Honors and Honors Advanced Courses
- ◆ Academic and Technical honors diploma available
- ◆ Notre Dame BRIDGES program—Building Relationships to Inspire and Drive Girls to pursue Engineering and Science

## Magnet Courses

- ◆ Introduction to Engineering Design
- ◆ Principles of Engineering
- ◆ Civil Engineering and Architecture
- ◆ Environmental Sustainability
- ◆ Digital Electronics
- ◆ Computer Science I
- ◆ Computer Science II: Android App Development
- ◆ Engineering Design and Development

## College Credit Opportunities

Credit posted during the first semester at each college



Dual Credit: Earned While in High School



## Advanced Placement Courses

English, Chemistry, Physics, Statistics, Calculus, Biology, Environmental Science, World History, US History

## Magnet Student Test Results

- ◆ 98% passing Algebra ECA by end of 10th grade
- ◆ 93% passing English ECA by end of 10th grade
- ◆ Score above National Average on PLTW exam

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## Frequently asked questions:

*Where do the students go to school after graduation?*

Student's have attended a wide variety of Universities and other post-secondary institutions.



### Engineering Universities Riley Graduates attend

Rose-Hulman  
Purdue  
Air Force Academy  
University of Michigan  
Notre Dame  
Trine  
IUPUI

*Do the student's that graduate only study Engineering?*

No, our graduates study a wide variety of fields. A common theme among our graduates even if they choose not to enter the field of engineering is that they would join the technology and engineering magnet again. The skills that the classes teach go beyond engineering. Some things that students have identified have been: team-building, presentation skills, and problem-solving.

*Can my son or daughter visit Riley?*

Yes, we would love for your student to visit during the school day! We can arrange a student for your son or daughter to shadow. Contact Matt Modlin at [mmodlin@sbcsc.k12.in.us](mailto:mmodlin@sbcsc.k12.in.us) to set it up!

*How many students earn dual credit?*

Currently enrolled students have earned over 800 credit hours! Over 275 students are enrolled in dual credit this year!

*What extra-curricular opportunities does Riley offer in Science Technology Engineering, or Math?*

- Riley hosts two Science Olympiad teams that have competed at the Indiana state Science Olympiad competition for over ten years!
- Quiz Bowl at Riley High School won the Plymouth Rotary Club state tournament in 2013!
- FIRST Robotics Team
- Riley is also partnered with University of Notre Dame Kinetic Structures Lab to offer a program to the women in the Engineering Magnet. The Women meet about twice a month to learn about bridge design and will visit Chicago to learn about the bridges crossing the Chicago River.