



Engineering and Technologies Academy

at Roosevelt High School
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North East ISD
www.neisd.net

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North East ISD ENGINEERING AND TECHNOLOGIES ACADEMY



Program Description

The Engineering And Technologies Academy (ETA), a magnet program at Roosevelt High School, provides a specialized curriculum with rigor, relevance and college preparatory courses for students interested in a future in engineering, technology and post-secondary education.

ETA believes in the value of advanced placement courses. ETA students are expected to take as many Pre-AP, AP and Dual Credit courses as their schedules will allow. ETA students are also strongly encouraged to graduate as Distinguished Graduates and with as many endorsements as they are able to achieve.

ETA offers a problem-based learning environment. Students are continually faced with solving real-life problems using the most current methods, modalities and technology available. These tasks guide students into becoming very adept problem solvers with excellent critical thinking skills. Those skills are best shown in competitions hosted by the Technology Student Association (TSA).



Students are challenged in a project-based learning environment to apply their knowledge and experience to create a solution.

Features and Accolades

- ETA courses include: Concepts of Engineering, Graphic Design and Illustration, Computer Programming, Cybernetics and Automation, Data Processing, Pre-AP Physics, Engineering Mathematics, GIS I and II, Internet Working I and II, Electronic Media II, Practicum of STEM, Engineering Design and Presentation, Engineering Design and Problem Solving, Problems and Solutions, and Robotics and Automation.
- ETA students consistently advance to the State and National levels of TSA competition every year.
- TSA also offers yearly leadership programs and the opportunity for students from around the country to interact with other students of common interest.
- In 2015, 96 percent of seniors graduated with honors. Thirty seven percent graduated Summa Cum Laude, 32 percent graduated Magna Cum Laude and 27 percent graduated Cum Laude.
- In 2015, 100 percent of the Distinguished Achievement Scholars from Roosevelt were ETA students.
- Colleges ETA students will attend in 2016 include: California Institute of Technology, Harvard University, Columbia University, MIT, California Polytechnic Institute, Rensselaer Polytechnic Institute, Rochester Institute of Technology, Boston College and Baylor University.

Enrollment Process

ETA candidates should demonstrate previous academic success, a good discipline and attendance record, and have a strong interest in striving for excellence.

Potential candidates must complete an ETA enrollment form at: www.neisd.net/eta. They must sign up to shadow a student for a day, take one or more Pre-AP classes in middle school, and pass all classes during their eighth-grade year.