

The Explorer



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EDITION 1

An Advanced Graphics Publication

GRANBURY HIGH SCHOOL
CTE
CAREER AND TECHNICAL
EDUCATION

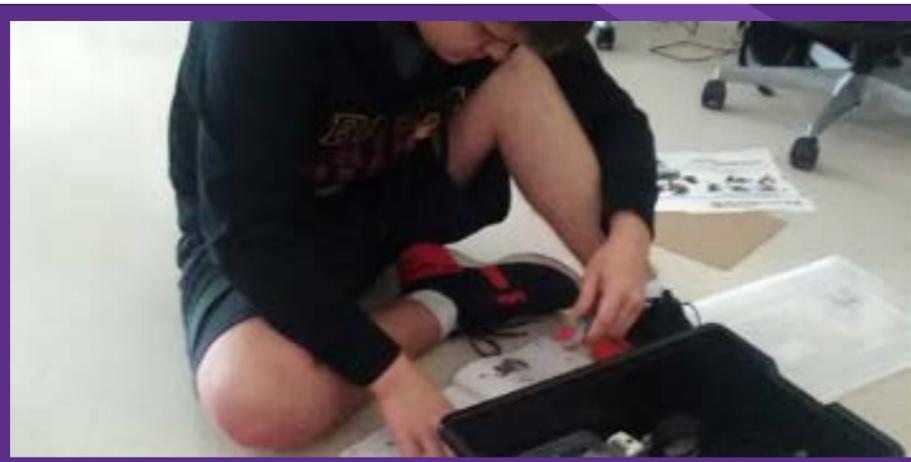
IT/Robotics

Information Technology is one of the fastest growing markets in America. With the rise of technology, more and more kids are going into technology related fields.

The IT/Robotics classes at Granbury High School, taught by Mrs. Jumper, educates these kids to prepare them for their future in the IT field. "I teach programming skills, how to build and wire robotics, and how to code and create games. That is what the students take with them once they graduate from my classes," said Mrs. Jumper in a recent interview.

One of the requirements of being in an IT class is, of course, to enjoy what you're doing. "They must enjoy programming and be very creative," said Mrs. Jumper in an interview. Creativity and programming prowess are essential in the IT field, after all. The project they are working on right now,

The Robot Powered Parade, is a perfect example of this. The basis of the project is real world experience; as Mrs. Jumper stated, "They [must] learn professional



Putting it Together-Student creates component of robot.

skills like communication and collaboration." Mrs. Jumper and her students look forward to this project; when asked what their most exciting project was, Mrs. Jumper responded that "The project we are doing currently, The Robot Powered Parade," was their most exciting project yet. Even though an essential part of the project is building the robot, most of the time is spent planning how to build it. "99% of the class is computer work, while only 1% is actually building robots/robotic components," explained Mrs. Jumper.

To design these robots, students use programs used in the professional field. "We use AppInventor, Greenfoot,

and Visual Studio," stated Mrs. Jumper. Building robots isn't all they do, however: they also design apps and video games that can be used by anyone. "We do app and video game development as well as the project we are doing currently, which is building robots. All games and apps we make are published and can be used. The parade will be viewed as well," explained Mrs. Jumper. Real-world application in the classroom, such as this, helps the students with real-world experience, as they get a taste of what working in a professional level environment is like. "The students use industry standard tools as well as learn how to be efficient and thorough in communicating and collaborating," explained Mrs. Jumper—all of which are essential skills in the job field.

It also helps the students with their portfolio—since all of the projects they make are published and available to the public, it becomes much easier for a potential employer to see their work before the interview process begins. Robotics and IT are classes for students interested in programming and design. It is also the perfect

place for geeks and gamers to apply their gaming knowledge in a real-world setting. With these skills, these students will become the future innovators of the technological world.
—Jay Staats & Robert Stowell Jr



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Aviation

When in the classroom you will learn a variety of things about planes and aviation in general. You will learn things such as reading the instruments in the cockpit, talking and communication over the radio, how you navigate from point A to point B. From there they would move onto learning the design aspect of aviation and figure out what makes the plane fly and how it does it from an engineering stand-point, or the different type of engine and propulsion systems and which each one has it's own specific purpose. Finishing off the year talking and learning about satellites and orbit and flying outside of the earth's atmosphere inside of the classroom, in the shop is where you will physically work and build a plane.

As far as them working on planes, they were given a plane to build back in November by Eagles Nest Project. They will be given a plane to build by them every year, and they plan to finish it by the end of the year. After words Mr. Kirk is planning on being the test pilot. The students will have the chance to take their piloting test in the plane they build. After awhile they will sell the planes they build over the years to be a self funded program.

This class can benefit the students after high school because they'd be able to put on their resume that they've built a plane. The class teaches the students a lot about the physics and dynamics about Aviations. They'd be able to bring the knowledge with them

to a certain college that works with that class / interest. Each year a non-profit group called "Eagle's Nest" which donates a plane or planes to High Schools that support the PLTW curriculum each year. They would like to have the plan finished by the end of the school year as stated above and keep the plane for next year.

The Aviation class is very hands-on as well as taught in class. Each week the students will go into the "shop" or the room next to their class to work on the plane itself where they are helped by 15 mentors from the Eagles Nest organization to help with making sure the plane is built correctly and to make sure the students are learning. 2 Days inside the shop working on the place / plane parts since it's in multiple pieces. The other 3 days inside of the school week are spent in the classroom where they learn different principles such as the design aspect of the plane and how it flies and other areas based around aviation.

Once they finish the plane by the end of the school year Mr. Kirk, they Aviations teacher,



will by the first test pilot and making sure it works and runs smoothly. As stated above, they plan on keeping the plan they build this year so the students next year can work to get their Private Pilot's license (PPL) and take flying lessons in the plane the students built the previous year. The plane itself was donated by Eagles Nest, eventually they will sell off the plane and get another plane donated which basically means it's a self funded project.

When working in the Shop the students in the class will break up into groups of 4 or 5 and are guided by a ground of 15 mentors year round from the Eagles Nest organization. There's about 1 mentor for every 1 or 2 people. The mentors are a great help due to the fact that it helps the students learn the correct way to do something the first time.

If you are a student who is thinking about taking this class as a junior or a senior after taking 2 years of engineering their freshman and sophomore years, it would be good to know that it's a pretty intense course but definitely has it's fun moment's. There's a small

combination of physics and calculus. You will learn about all the aviation careers such as pilot, mechanic, engineer, possibly even management inside of a cooperation. It is more than just learning how to build an airplane and fly one. The class covers all aspects of Aviation and the field around it.

As stated before, this class is something you could put on your resume to help you after your High School years. Out of the 2000 plus students at Granbury High School only a handful of people can say "I've built an airplane." It is something you could say to an employer or a college. Next year it would help as well. Graduate High School and already have a pilot's license. Just imagine the opportunities you could have. That means if you were to get hired in a business related to Aerospace or Planes, or a job that requires a pilot's license; They don't have to spend the time and money to train you for your



pilot's license.
—Frank Felz & Jose Arellano



Following instructions- Fellow Eagles Nest mentors and GHS students work side by side to build this airplane.



A Helpful Hand- Eagles Nest mentor helps guide GHS students in how to repair the airplane.



Health Science

With about 60 students in the Health Science program, these few GHS students experience the most hands on medical field activity in Hood County. This course is not simply one to fill up a schedule, but one that the students are interested as a possible career choice. With their well liked and well respected instructor, Sonya Byrd will teach her students how the medical field runs. And with the knowledge she gives to them, there is no doubt that they could succeed in the medical world.

To give more surreal-ness to the line of work, every Tuesday and Thursday the students load up and go to the local hospital to understand and have hands on experiences in the real life scenarios. They will be assigned to different departments all around the hospital shadowing doctors and nurses and assisting in different manners. Known for the purple and white scrubs, the future medical field workers



wear these outfits to not only represent who they are associated with but also for health reasons at the hospital. Depending on what they are working with, they need to keep themselves safe from any hazardous material.

Outside of the hospital, on campus activities include crafty projects done at home. The students use their incredible artistic abilities to show models such as life size models of the human heart. One of the most difficult tasks that these students experience is the constant seriousness. At no point in any medical field position is horseplay or comedic actions tolerated, and these students learn that early on. Besides from maintaining good grades, there are specific requirements most teenagers don't even think about, such as passing a background check, and or having to pass a drug test. Although, the most impressive would have to be earning a CPR certification.

—Michael Coté & Nathan Rue

Medical Ride- Health Science students learn about Ambulance.

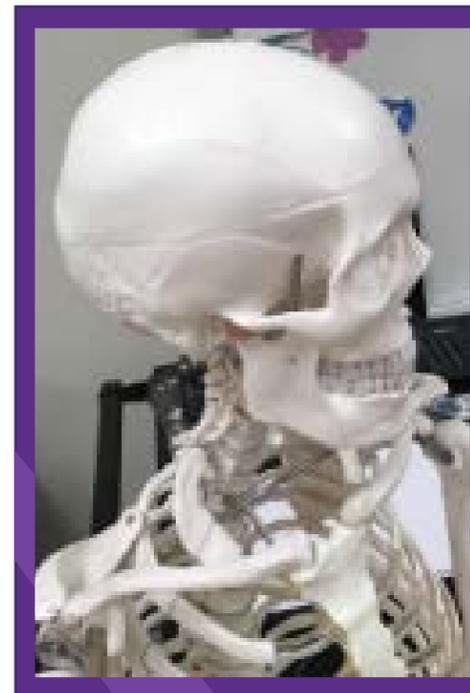


Forensics

Forensic science is the testing of skills used for crime investigation. At Granbury High School, we're lucky to have a teacher, Ms. Windham, who helps with the many aspects of solving crimes through labs and research. In a recent interview, we learned many things about forensics.

The first lab you'll do in the class is make a mock-up crime scene, and you'll continue making different ones throughout the school year. Students had to act out the crime, ask questions the next day, and record all of the information from the scene and the victim. It takes around a month to come up with new crime scenes, get supplies, does interviews with the suspects, makes labs, etc.

Many of the experiments done in the class involves using bones (which are actually plastic molds ordered from a catalog). Another project they do is determining the race,



Doll house Murder Scene- Hit the nail on the head.

age, height, and biological sex of a person by just using a skull, humerus bone, and the pelvis! We learned that in forensics there is only three races: Caucasoid (Caucasian), Mongoloid (Asian), and Negroid (African). The jaw placement is the key point in determining the ethnicity of somebody.

Ms. Windham's goal for her class is to make it educational, but also lots of fun. The only thing that might make the class less fun for people is if they're squeamish. A main project that would make a person uncomfortable is the autopsy videos. Students have the option to not watch the video due to how graphic. She has only had one person faint in her class, and it was due to an autopsy of a pig. Other than that, she says the class should still be fun.

There are many reasons to join this class. It's a great learning experience, and you get to deal with blood, guts, and gore. It's not going to be like the scenes in crime shows. However, you're guaranteed to have a great time.

—Emma Retana & Randy Dennis

Culinary

The Culinary Arts program at Granbury High School is one of the few classes offered to students that gets hands-on and frequently participates in activities outside of normal curriculum. On the outside, the program looks like just another cooking class, however it has many layers and delves deeper than just cooking.

Before the students may begin learning culinary arts, they first take the introductory class. This class includes hospitality lessons, along with menu planning and vacation arranging. This class essentially covers a broad spectrum of subjects without primarily focusing on food. This gives the students an idea of what they really want to be when they graduate, and prepares them for other classes.

The next class is called Intro to Culinary. This is the stage where students will begin preparations for cooking in a kitchen. They will learn basic cooking skills and earn their food handler's certificate, which is crucial to an aspiring cook/chef. During this class, the students won't dive into cookbooks; Instead they will learn safety and technique, while preparing for the next class.

The final classes are Culinary 1&2. This is where the students will do the bulk of their cooking. On average, the class is in the kitchen 2-3 days a week learning skills and



Measure it Out- GHS students learn the proper etiquette for the kitchen.

fill orders from outside sources and serve food to the public on some occasions.

The Bistro, also known as "The Galley", is a restaurant-style classroom that is made to serve food to the public. The ultimate goal of The Galley is to be able to serve food to students, faculty and the public. The school has regulations against serving food and how to handle it, so The Galley is a work in progress.

The Culinary Arts program is an ever-growing class that is striving to become something larger. Not only is the class getting bigger, but the desire to serve food to outside sources is growing as well. No matter what will become of the program, we can't wait to eat at The Galley!
—Jason Lambert & Ben Hyde



Consumer Science

Instructional Practices in Education and Training (Ready, Set, Teach) is the class that allows students to act as student teachers, or interns. They visit Brawner, Baccus, and Emma Roberson elementary. The class comes as a block class, meaning it's two periods. The difference between this block class and most, is that the "student teachers" first class is before school starts, since the younger, elementary kids start school before us, while the second class of the block class is the high school's first period class. The students may help the teacher, like a normal elementary school day with extra help, hold their own lessons, or take kids out individually for one-on-one tutoring. The only requirement to join the class is you must take Principles of Education and Training, and Child Development first. Not only does this class place you ahead of your peers when you go off to college by allowing you to work with young children in your high school years, when most don't do such until their senior year of college, but the students in the class also get

Helping Out- GHS student helps teach elementary kids the ways of the high school.



to join their kids on field trips. The students throughout the years have expressed their love for the program, and from our interview we can tell things are only improving!

Within the eight child development classes, there are only thirteen electronic babies to check out throughout the entirety of the school year. Each student in previous years would have the chance to have the baby for a full week. But now, more and more students are becoming interested in these classes to the point of each student whom check out the electronic babies are only able to have them for a maximum of three days. Only students who show maturity and responsibility may have the experience of taking care of a electronic baby for the three day period.

While taking care of the babies assigned to the students, you will have to keep track of the feeding, diaper changes, burping, sleeping patterns, clothing changes, and also cuddling being done on a note sheet. These babies now have sensors within the clothing to make sure the students do not neglect changing the



baby out of their sleep or day clothing. Also starting from this year, the babies can now detect when they are being kept in dangerous conditions; whether it being too hot or too cold, and also how long they are being kept in that environment. Within this class, there will be an experience to view a drug/alcohol baby doll, and the major effects that it can physically have on an infant if chosen to do narcotics while being pregnant. This class gives an insight of what could happen and what you need to be ready for in a life of parenthood. From the teachers that were interviewed, it is a very eye-opening and a great life skills class to experience; even if you may think it isn't a class for someone in particular, it really is a class to think about taking so that you are ready to live a life as a parent later in the future.

In addition to the two prominent programs mentioned above, there are two more we took an interest

in. Student organizations FCCLA (Family, Career and Community Leaders of America) and TAFE (Texas Association of Future Educators) are programs alike Affinity F1, where they go and compete. The difference is you must be enrolled in a Family and Consumer Science Class, which means instead of racing cars, you may make cupcakes (Ask Joseph Johnson-the first place winner at regionals of the Cupcake Battle Occupational). The two, alike the rest of Mrs. Jesko's and Mrs. Titus's programs, provide further family and people skills, along with leadership skills.
—Tiara Dobs & Ashley Gray



Store Hours
8:30-1:30

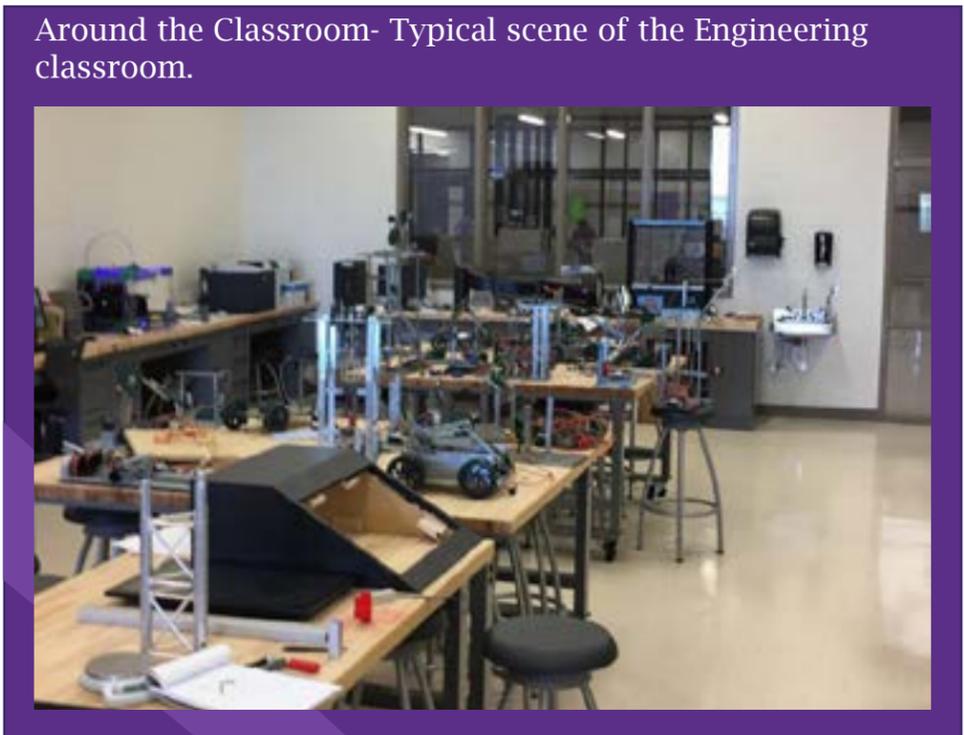
Located in CTE wing

Engineering

Engineering is a fun way to apply math and science and to see how the world works. Engineering Students do a variety of Projects such as Robotics, Electrical Breadboards, Statics, and Analyze bridge Trusses. They also do Kinematics and Projectile Motion as well as learn about Mechanics and Gear Ratios.

Goal of Engineering Classes and F1 is teaching students how to Solve Problems. Engineering Classes can lead to anything Engineering related such as Marketing, Web Design, and Basic Engineering related skills as well.
—Kyler McGee & Juan Vielma

F1 is the Engineering Competition for Granbury ISD and the students have to find their own sponsors and do marketing, website, and design it themselves. They create their Car in 3D CAD (mainly Autodesk Inventor). Then they laser cut their Car out and test it in the Wind Tunnel. F1's biggest accomplishments include an International Competition and also are very successful in Competing. This year F1 placed 1st, 2nd, and 3rd in Competition. F1 also got to help Lockheed Martin with making a drag car Competition between Employees.



Engineering Classes also include learning how to use the Laser Cutter, Wind Tunnel, 3D Printer, Bandsaw and a lot of other Shop Tools. The Main



The Anchor

If you have ever heard The Anchor on the announcements and wondered what it even is, then look no further. The School Store is ran by students who have taken Adsetts, Sports Marketing, Entrepreneurship ,and Marketing Dynamics as classes or Coach Guidry's student aides, and the President of the store is Corbin Weeks. Many of the merchandise they get is ordered from local businesses or the school itself. The prices are made by the President of the store and his associates and the way they decide the prices is by seeing how much they buy it for and see how much it would sell for to make a reasonable profit.

Other items not depicted but are sold there include:

Pencils \$0.25
Pens \$0.50
Gum (Extra) \$2.00
Gum (Orbit) \$2.00
Lollipops \$1.00
Water \$1.00
T-shirts w/ 2 color logos \$13.00
Swim Tees \$10.00
Basketball Tees \$15.00.
Hoodie \$25.00
Propel flavored water \$2.00
Wristband \$1.00
Chips \$1.00
Ear-buds \$5.00
1 subject notebook \$2.00
Nutri grain bar \$1.00
Jack links \$2.00
Cliff Z Bar \$2.00
Mott's Apple Juice \$1.00
Index \$1.00
Folders \$1.00

Chapstick (Blistex) \$2.00

—Carlos Martinez

CUSTOM!



Cool Tumblers and Prices:

Tumbler (Buy and custom) \$30.00

Tumbler (customize own) \$15.00

Tumbler (collage) \$20.00

Tumbler (Blank) \$15.00