MakerSpace - The Innovative Classroom

The MakerSpace is officially in operation at Osbourn High School. The MakerSpace is a classroom where students can use automation (3D printers, laser cutters, and CNC machines) to create new and interesting projects.

Students can come to the MakerSpace at any time during the year to learn skills necessary to build projects in wood, metal, or plastic. Career and Technical Education (CTE) and general education classes are able to utilize the MakerSpace during the school day.

Do you have an idea or project that you would like to build? Do you need help on the use of tools to get your project started? Come to the MakerSpace to make your idea a reality.

CTE teachers are available after school to provide safety training and instruction on building projects. Students can learn to use the Laser cutter/engraver, the CNC Router, a 3D printer, a Plasma cutter and many other tools to build projects of their own interest. The project for the month of December was making a hardwood cheese cutting board and January’s project of the month was designing a custom CNC carved sign.

Shown to the right: Instructor Charles Corrick and students setting up a piece of equipment called a CNC Router. There is a heavy emphasis on safety practices and students must pass safety tests in order to use the various machines.
New courses proposed for the 2019-20 school year
*Carpentry I, Aerospace Engineering and Fashion Marketing*

The Career and Technical Education Department at Osbourn High School will offer three new courses for the upcoming school year. Osbourn is pleased to offer Carpentry I, Aerospace Engineering, and Fashion Marketing.

Carpentry I enhances our construction program. The course allows advanced students in the construction pathway to master additional competencies. Look for Carpentry II in the next school year’s program of studies.

Aerospace Engineering propels students’ learning in the fundamentals of atmosphere and space flight. As they explore the physics of flight, students bring the concepts to life by designing and building an airfoil, propulsion system, and rockets.

Fashion Marketing is a new course that will allow students the opportunity to learn about the fashion industry, history of the fashion industry, various topics in design, marketing strategies, and designing promotional media.

For additional information refer to the course catalog or the program specific brochure. More information can also be found at high school CTE website at: [https://www.mcpsva.org/careerteched](https://www.mcpsva.org/careerteched).

The Career and Technical Education Department at Osbourn High School will look to expand its’ CTE course offerings even more in the 2020-21 school year!

A CTE committee will be formed to analyze the best programs to add that will meet the needs of the local community.

Doughnuts with the Engineers, Businesses, Health Services, and Construction Trades have been delicious!

The Career and Technical Education Department thought it would be beneficial to host several meetings with the respective business and industry partners within Manassas City and the Prince William community. Doughnuts with Engineers, Doughnuts with Businesses, Doughnuts with the Construction Trades, and Doughnuts with Health Services have been organized so that students and business partners could have conversations about potential career choices. See the schedule below of past and future events.

September 28 - Doughnuts with the Trades
October 26 - Doughnuts with Engineers
November 2 - Doughnuts with Engineers
November 9 - Doughnuts with the Trades
December 7 - Doughnuts with Business
December 14 - Doughnuts with Health and Human Services
January 11 - Doughnuts with Businesses
February 1 - Doughnuts with Heavy Construction & Equipment Operators
Career and Technical Education Supervisor

The new Career and Technical Education (CTE) Supervisor for Manassas City is Dr. Bernard “Trey” Davis. Dr. Davis comes with many years of CTE experience and currently holds the position of the President of the Virginia Association of Career and Technical Education Administrators. To contact him, call (571) 377-6067 or email bdavis@mcpsva.org.

Osbourn CTE Administrator

Paul Steiner is in his third year as the Career and Technical Education (CTE) Administrator at Osbourn High school. Mr. Steiner can be reached at psteiner@mcpsva.org or by calling (571) 377-7000.

Osbourn CTE Department Chair

Margaret Connors is in her first year as the Career and Technical Department chair. If you need any assistance please contact Mrs. Connors email her at mconnors@mcpsva.org or call (571) 377-7000.

Metz Middle School CTE Department Chair

Dan Krotzer can be reached at (571) 377-6800 or at dkrotzer@mcpsva.org.

Career and Technical Education Student Organization (CTSO) Information

Pictured above are the 2018 state champions in SkillsUSA.

Criminal Justice students Maria Pineda, Isela Ramirez-Amaya, and Leonardo Solis won Gold in Crime Scene Investigation. Cosmetology student Dania Lopez won Gold in Esthetics. Her model was Dinia Gonzalez. Ty Ford won the Gold in Barbering. At the National SkillsUSA competition, Cosmetology student Andrea Valenzi placed 5th in the Action Skills (Leadership) competition. Yanci Salvattiera-Llanes placed in the top 10 out of 38 competitors in Fantasy Mannequin. The Criminal Justice team finished 4th place in the nation! Both competitions were held in Louisville, Kentucky the week of June 25-29, 2018.

First Robotics will begin in early January when they find out their competition requirements.

On March 30, 2019 PBL will host its state leadership conference. On April 4th-6th FBLA will hold its state leadership conference.

All of the results of the various student organizations will be posted in the spring (June) edition of the Career and Technical Education newsletter. Each newsletter will dedicate a section to the CTSO’s of Osbourn High School.

Look for more information in future editions.
Hair Cuttery Team visits Cosmetology

Hair Cuttery Salons of the Metro Region of Virginia have partnered with the Osbourn Cosmetology program. Hair Cuttery team members visited in November and December to deliver instruction on hair styling, cutting techniques, and professionalism. Spring semester Hair Cuttery team members will continue to deliver instruction on techniques, mock interviews for students, salon visits and help students prepare for state board examinations.

We would like to thank Hair Cuttery for bringing industry experience and instruction to our cosmetology students.

Cosmetology is selling vouchers for Cosmetology service. Please contact instructor Mrs. Arnaz Dotivala at (571) 377-7189 or email her at adotivala@mcpsva.org.

2018-19 STEM Academy Inductees

Congratulations to the new 2018-19 Governor’s STEM Academy members.

Congratulations to fourteen inductees into the 2018-19 Governor’s STEM Academy at Osbourn High School.

The students were recognized on October 30, 2018. The students entering the STEM Academy will choose their pathway of courses this upcoming school year to plan out their high school career. This is the second year of the Osbourn Governor’s STEM Academy.

The new inductees are Zachary Bennett, Michelle Clement, Noelia Corea, Audrey Done, Kevin Higgins, Leila Hogan, Joshua Brown Jr., Kyle Patrick C. Salcedo, Ryan Luskey, Sydney McKeever, Jeffry Menjivar Alberto, Jeffery Quintero, Reina Ruiz, and Laaibah Tayyeb.
First Annual Counselor’s Luncheon and CTE meeting was a success!

On December 14, 2018, the Osbourn High School Counseling Department was treated to a professional development luncheon directed by the Career and Technical Education Department. Paul Steiner, Osbourn CTE Administrator, and Dr. Trey Davis, Manassas City Public Schools Supervisor of K-12 CTE, headed up the professional development opportunity.

Since the Counseling Department is filled with many new faces, the CTE Department believed presenting information about the history and current status of the Career and Technical Education programs was essential. Being advised on each program curriculum, the various certifications, and the field of competency based education was important for both parties.

The topics of the meeting were: the new CTE marketing strategies, program certifications, curriculum, grade level courses, prerequisite courses, and much more.

“We need to market our career and technical education programs. Our stakeholders are potential students, current students, parents, and businesses”...CTE Supervisor Dr. Trey Davis.

Career and Technical Education devises a new marketing strategy

The Career and Technical Education department understands the best way to attract the students who wish to take a particular program is to market their individual program.

The CTE department now has a strategic marketing plan that will include updating the CTE website, printing division-wide newsletters, adding program brochures, and installing brochure racks in the various CTE classrooms and counseling office.

Having individual brochures for each program will allow the instructor and counselors the opportunity to give potential students more detailed information in a simplistic way. The brochures are also helpful when various local businesses want to know more information about a program. With the implementation of program advisory boards, it will be important to have documentation that gives an overview of the various programs and courses.

Updating the career and technical education website will allow viewers the opportunity to obtain specific program information, download various documents, and will allow the CTE department to share division wide CTE program highlights.

Instructors will also be given business cards so that they can present their contact information to related businesses and industries.

Below is an example brochure rack that will be installed in the counseling office.
Career & Technical Education Department looking to build a stronger Advisory Board

The Career and Technical Education department at Osbourn High School is looking to expand on their existing CTE Advisory program. Manassas City Public Schools has a CTE Advisory program that oversees the CTE vision for the entire school system. The CTE department will implement a stronger advisory board by creating and expanding individual advisory boards for each program.

It’s important for each program to have a strong advisory board. When an instructor can meet with advisors it is an opportunity to share information about instruction, certifications, best practices, industry equipment, and much more.

The CTE programs at Osbourn High School will kick off its campaign with a CTE Advisory banquet/dinner in the fall of 2019. The program instructors will use the remainder of this school year to seek out positive program advisors. Having a strong advisory panel will open up opportunities for employment, guest speakers, update to date industry information, and field trips.

School STEM/Science Projects

Baldwin Elementary School 2nd graders completed a Project Lead the Way (PLTW) module in which they designed a traveler’s shoe for a specific environment. The shoe had to (1) provide locomotion, (2) camouflage, (3) a means of defense, and (4) obtaining food. See the shoe picture below!

Baldwin Intermediate School is working, in tandem with George Mason and the Smithsonian, on a task to examine turtle data and create a procedure for describing how to determine the age a turtle by looking at its shell.

We are excited to include more elementary and middle school articles in the future newsletters!