

## Electrical Construction Engineering

This pathway provides the opportunity to blend Career and Technical courses with High School Engineering courses to help students apply technical skills along with STEM skills to solve real-world problems. Students will be able to apply knowledge and skills to install, maintain, and repair residential and commercial electric systems.



Students are also exposed to DC and AC motors, controls, and electrical distribution panels and instruction in the principles of safety, industrial and household appliances, job estimation, electrical testing and inspection, and applicable codes.

### Certifications

- REC-Foundation Pre-Engineering, NCCER Electrician Technician, & OSHA 10

### Courses

- Engineering I (IED) at BEHS or BCHS
- Electrical/Electronics Engineering (DE) at BEHS or BCHS
- Circuits I
- Circuits II
- Electric Motor Controls
- Shielded Metal Arc Welding at ATC



To apply for any of these or other programs at the Bullitt County Area Technology Center please visit our website at <https://www.bullittschools.org/25/home>

You may also ask your counselor for the application and then follow all directions for consideration. Applications are due by March 8th, 2019.

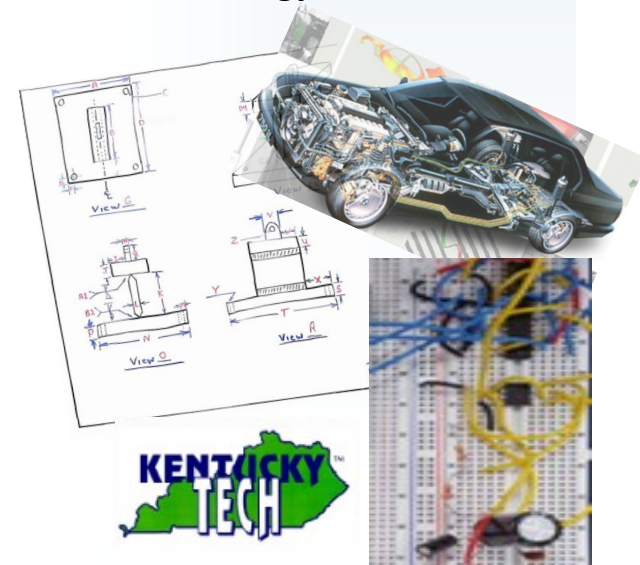
### Bullitt County ATC

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## Bullitt County ATC Engineering Hybrid Pathways

- **Welding Engineering**
- **Electrical Construction Engineering**
- **Automotive Engineering Technology**



*Bullitt County Area Technology Center*

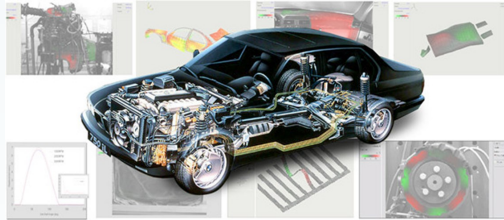
## Engineering Hybrid Pathways

The Hybrid pathways are a bridge between our high school engineering pathway and the career and technical pathways offered at the ATC. Many students find that they like the hands on engineering experiences but do not wish to pursue a bachelors degree including physics and calculus. The Hybrid pathways lead to highly lucrative careers in Engineering Technology that may only require an associates degree or on the job training in an apprenticeship program. High school engineering students should note that many of these pathways include the blueprint reading that you learned in engineering design as well as concepts learned in Principles of Engineering and Digital Electronics.



## Automotive Engineering Hybrid

This pathway provides the opportunity to blend Career and Technical Education (CTE) courses with Engineering courses to help students apply technical skills along with Science, Technology, Engineering, and Math (STEM) skills to solve real-world problems. This pathway prepares individuals to apply engineering principles and technical skills in support of engineers and other professionals engaged in developing, manufacturing, and testing ground vehicles and their systems.



### Certifications

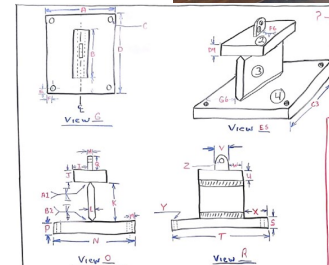
- REC-Foundation Pre-Engineering Certification & ASE Automotive Maintenance and Light Repair

### Courses

- Engineering I (IED) at BEHS or BCHS
- Electrical/Electronics Engineering (DE) at BEHS or BCHS
- Maintenance and Light Repair A at ATC
- Maintenance and Light Repair B at ATC
- Maintenance and Light Repair C at ATC
- Maintenance and Light Repair D at ATC

## Welding Engineering Hybrid

This pathway provides the opportunity to blend Career and Technical Education (CTE) courses with Engineering courses to help students apply technical skills along with Science, Technology, Engineering, and Math (STEM) skills to solve real-world problems. Welding Engineers design and develop metal components for products for the pipeline, automotive, boiler making, ship building, aircraft and mobile home industry. Welding Engineers must have knowledge of cutting processes and gas metal arc welding procedures for efficient development of these industrial processes.



### Certifications

- REC-Foundation Pre-Engineering Certification & AWS 2-F Welding

### Courses

- Engineering I (IED) at BEHS or BCHS
- Engineering II (POE) at BEHS or BCHS
- Blueprint Reading for Welding at ATC
- Cutting Processes at ATC
- Shielded Metal Arc Welding at ATC