



STEM Academy

The STEM Academy includes rigorous courses that focus on the nature and core concepts of science, technology, engineering and design and math (STEM). In each concentration, students are guided through relevant, engaging, and hands-on project-based activities. Students will have opportunities to network with professionals to acquire knowledge of innovative techniques and trends in each of the academy based industries. Upon successful completion of one of the areas of concentration (earning a C or higher in each concentration course, beginning with the Class of 2020), students may receive a red cord for graduation and will be prepared for college and career success in a STEM industry such as Advanced Manufacturing. Please see a Project Lead The Way (PLTW), Technology or Engineering Drafting teacher for specific details. The STEM Academy is currently offered at Central Davidson, Ledford, North Davidson, Oak Grove, and West Davidson High Schools.

Drafting Engineering

Students are required to complete the following three (3) courses:

Drafting 1
Drafting 2-Engineering* Honors
Drafting 3-Engineering Honors

In addition, students must choose two (2) courses from the following list:

Career Management	Personal Finance
Principles of Business & Finance	Engineering Design*[^]
Technology Engineering & Design	Technological Design*[^]
Multimedia & Webpage Design[^]	Entrepreneurship 1[^]
Microsoft Word & PowerPoint	Microsoft Excel[^]
Apprenticeship[^]	Internship[^]

*Capstone Completer Course

[^]This course has a prerequisite. Please see the Davidson County Schools High School Planning Guide or a CDC for more information regarding prerequisites.

Project Lead The Way (PLTW)

Students are required to complete the following four (4) courses:

Introduction to Engineering Design Honors
Principles of Engineering Honors
Digital Electronics* Honors
Engineering Design & Development Honors

In addition, students must choose one (1) course from the following list:

Drafting 1	Career Management
Technology Engineering & Design	Entrepreneurship[^]
Technological Design*[^]	Personal Finance
Microsoft Word & PowerPoint	Microsoft Excel[^]
Principles of Business & Finance	Internship
Multimedia & Webpage Design	Apprenticeship

*Capstone Completer Course

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Technology

Students are required to complete the following two (2) courses from one (1) of the following sequences:

Technology Engineering & Design
Technological Design*

OR

Technology Engineering & Design
Exploring Robotics With Electronics 1* Honors

In addition, students must choose three (3) courses from the following list:

Exploring Robotics With Electronics 2*[^] Honors
Career Management
Microsoft Word & PowerPoint
Microsoft Excel[^]
Multimedia & Webpage Design[^]
Principles of Business & Finance
Entrepreneurship 1[^]
Personal Finance
Internship[^]
Apprenticeship[^]

*Capstone Completer Course

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Career & Technical Education
 Davidson County Schools



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