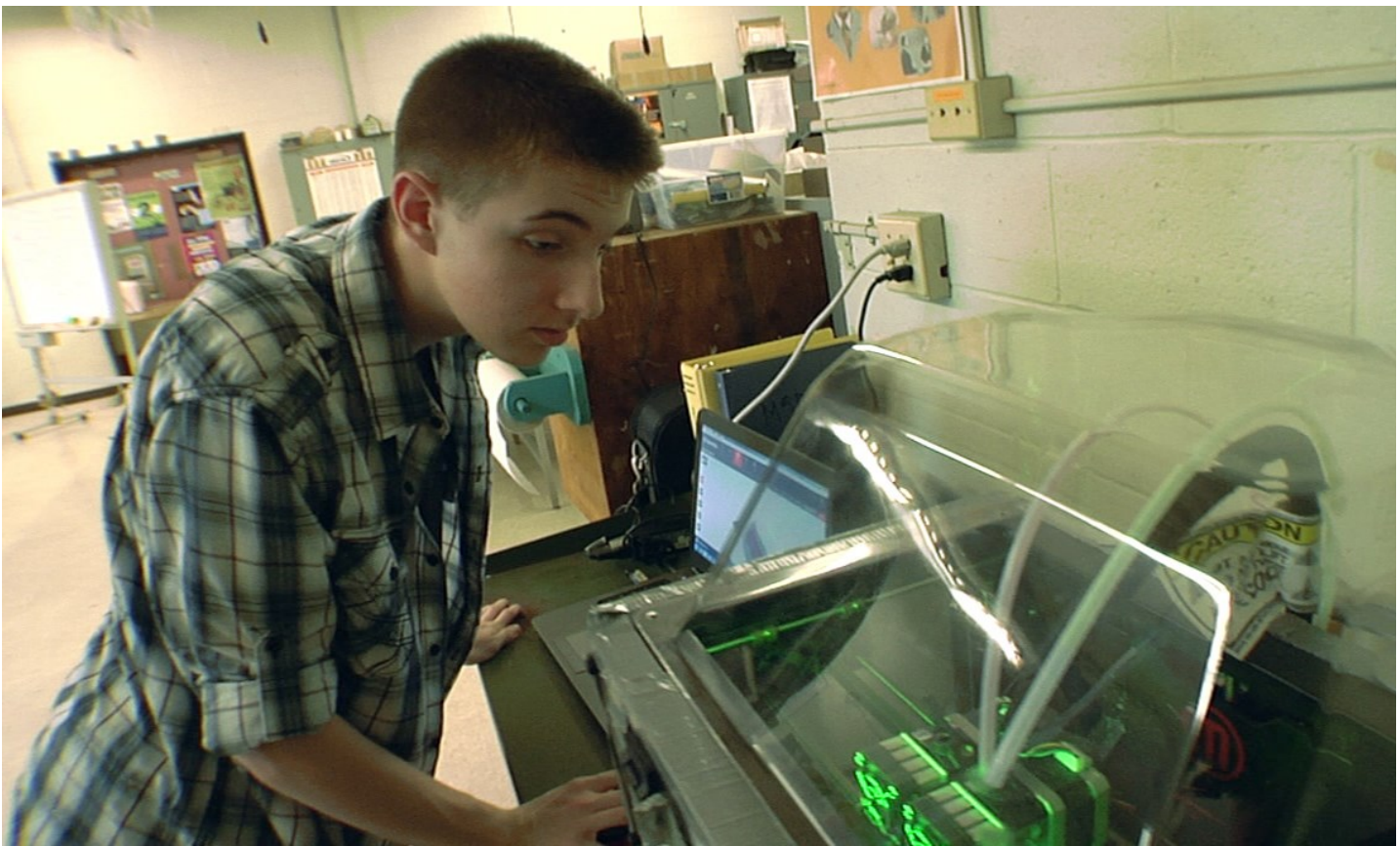




Wilbur H. Palmer
Career and Technical
Education Center

Drafting & Design

Learn basic and advanced drafting skills using the following software; AutoCAD, Inventor and REVIT. Manufacture designs with our 3D printer using 3D Parametric software. Students design innovative projects that incorporate structural design and advanced technological design. Students are prepared for college and entry level careers in drafting, mapping, construction, manufacturing or engineering.



Sample Occupations for Drafting & Design Graduates (Source: Bureau of Labor Statistics- Occupational Outlook Handbook)

Job Title	Projected Openings Through 2026	Average Salary
Architects	5,500	\$78,470
Drafters	14,600	\$54,170
Civil Engineer	32,300	\$84,770
Industrial Designers	1,800	\$65,970

For More information: Contact your Local School Counselor OR

Wilbur H. Palmer CTE Center
@Alvirne High School

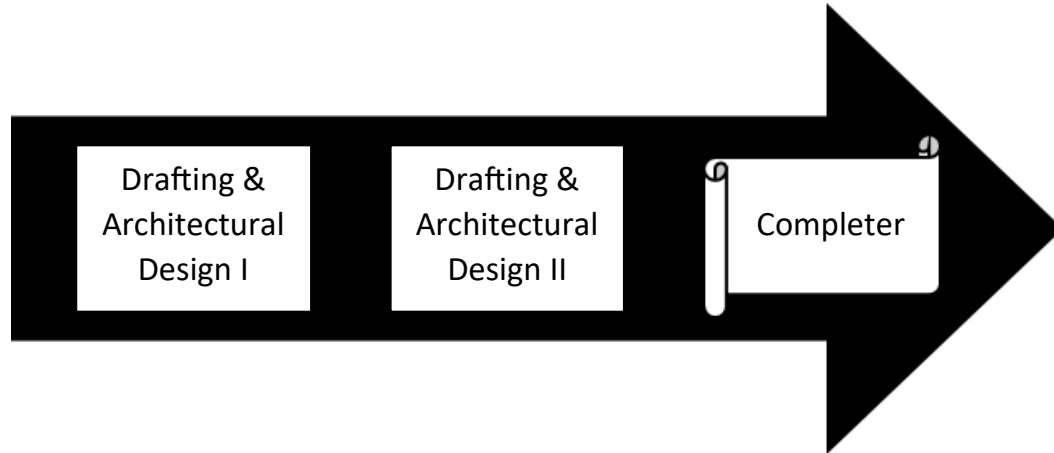
200 Derry Road

Hudson, NH 03051

tel.: 886-1260 x75010

web: <https://cte.sau81.org/>

Drafting & Design Program Path



Course Descriptions

Drafting & Architectural Design I: *Year-long Course; CTE703*

This introductory level course in drafting covers the use of Inventor 3D parametric modeling software & REVIT Architectural Modeling Software. The students will be introduced to techniques used by drafters & engineers. Students will be able to visualize parts and spatial relationships as well as design pictures utilizing multi-views and the four basic shapes. This course provides a basic understanding of drafting for any student interested in a career in architecture, drafting, mapping, construction, manufacturing, or engineering. Students will examine drafting techniques as it relates to auxiliary views, sectional views, fasteners, gears, and working drawings. This course is also valuable for students wishing to obtain jobs in the machine, electronic, sheet metal, and building industries. Also, students will learn how to measure and reverse engineer parts. To be successful in this course, an understanding of how to perform basic math computations is essential.

***Prerequisite:** Successful completion of ICT Literacy

Drafting & Architectural Design II: *Year-long course; CTE705*

This course broadens the scope of working with architectural drafting REVIT (AutoCAD™) as it relates to designing a single-family house. Computers, essential to drafting in the 21st century, will be incorporated into the design aspects of the course. This course will help students advance their drafting skills while focusing on architectural and interior design applications. Students will benefit from learning to generate basic home designs to assist in home remodeling or placement of furniture within a home. A scale model will be drawn and physically constructed to demonstrate the students' practical application of mechanical drawing skills. Students will continue their draftsmen skills development by completing individualized projects incorporating structural and advanced technological design. Engineering skills will be stressed. Software used in this course include Inventor™ & REVIT. This is a project based curriculum and students will be required to work independently. Students can earn dual enrollment credit through Nashua Community College for Technical Drawing.

***Prerequisite:** Successful completion of Drafting & Design I with a B average or better or permission of the Department Chair.

***This course contains embedded mathematics and may be used to fulfill the four-credit math requirement.**