

Haddon Township High School
Course Overview

Subject Area: Technology Education

Course Name: Level II Drafting Technology

Summary: This course builds on the skills learned in Drafting Technology Level I. Students will learn computer-aided drafting (CAD) using A+CAD software, technical illustration, product design and planning, and architecture.

Unit Title	Student Learning Target	Standards	Resources	Assessment
Unit 1: A+ CAD Introduction	<ul style="list-style-type: none"> • Have a good general knowledge for basic commands and menus in the A+CAD drafting program. • Be able to logically problem solve when critical thinking is needed when working with the program. 	<p>8.1 Educational Technology & 8.2 Technology Education, Engineering and Design</p> <p>8.2 Technology Education, Engineering, and Design</p>	<p>Mac Dual Boot Computers</p> <p>A+ CAD program</p> <p>Miscellaneous tutorial-based handouts</p> <p>A+ CAD Tutorial Workbook</p>	<p>Students will be assessed based on their accumulated portfolio of work. Specifically, over the course of tutorial assignments and completion, students will independently complete assignments and tasks assigned in a chronological order. Students will document all work created and completed and save drawing exercises to desktop as well as personal flash drives.</p>

				Students should be expected to recall/retrieve any or all work, within a reasonable time, if asked to do so. Students are also encouraged to electronically communicate with one another or myself should they need help and/or assistance or if they have something to share with the class for the good of the cause.
Unit 2: Architectural Model House Building and Construction	<ul style="list-style-type: none"> Construct an architectural house model correctly following a set of detailed plans and instructions. Understand the correct use of scale when constructing the above-mentioned model (1" = 1'-0"). 	<p>8.1 Educational Technology & 8.2 Technology Education, Engineering and Design</p> <p>8.2 Technology Education, Engineering, and Design</p>	<p>Balsa wood house model kits (KIT0301F)</p> <p>Small cutting tools</p> <p>Various supplies: rulers tape measures, glue, nails and tacks</p> <p>Overhead with transparencies</p> <p>PowerPoint Presentations</p> <p>Various architectural/residential/commercial building websites</p>	Students will be assessed based on their accumulated portfolio of work. Specifically, instruction and model building will be completed within the given time period. Students will be assessed by correctness of models individually constructed following directions,

				understanding drawings parts and pieces and general appearance and neatness (aesthetic appeal) of finished product.
Unit 3: Architectural Research and Development	<ul style="list-style-type: none"> • Research, select, gather data/information, organize and report, both written and orally, on their chosen architect that made a notable contribution impacting modern day architecture. • Replicate a set of plans, via A+CAD, of the above mentioned architect's design. 	<p>8.1 Educational Technology & 8.2 Technology Education, Engineering and Design</p> <p>8.2 Technology Education, Engineering, and Design</p>	<p>Mac Dual Boot Computers</p> <p>A+CAD</p> <p>Microsoft Word</p> <p>Internet (for research purposes)</p>	Students will be assessed based on their accumulated portfolio of work. Specifically, students will complete both written and oral reports (the latter read to the Drafting Tech. I and Level II Drafting classes) and create a replicated set of plans detailing the uniqueness of the architect's famed design. Subject matter, punctuation, sentence structure, spelling, grammar and public speaking skills will be used for final evaluation
Unit 4: Architectural Planning and Design	<ul style="list-style-type: none"> • Fully understand all 	8.1 Educational Technology & 8.2	Mac Dual Boot Computers	Students will be

	<p>the functions that an architect is responsible for and all the drawings required by law for a set of plans to be approved by a building inspector. Understand how all drawings prepared are a percentage of the complete set of plans and that miscalculation to one plan generally affects the correctness and validity of the other drawings to the set.</p>	<p>Technology Education, Engineering and Design</p> <p>8.2 Technology Education, Engineering, and Design</p>	<p>A+CAD</p> <p>Internet</p> <p><u>Architectural Residential Drawing and Design</u> textbook</p>	<p>assessed based on their accumulated portfolio of work. Specifically, completion and correctness of set of drawings prepared making up the general plan. Students will be responsible for making sure that their CAD drawings are all prepared to code and that the scaled used on all drawings is the same (universally drawings are prepared 1" = 1'-0"). Documentation, footnoting and general notes should be added and provided when and wherever needed. Students will present finished plans to class once completed (simulating presentation to a building inspector or a group of investors).</p>
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