

Curriculum Map for: CAD/DDP, Scotia-Glenville Central High School Technology Education Dept.

Prepared October 11, 2005 by Patrick M. Collins

Prerequisites: NYS mandated middle school Technology Education experience (or similar middle school Technology Education experience).

Scope: This is a one unit course intended to be an introductory study of the basic language of engineering (technical drawing) using traditional technical drawing skills and cad software.

Assessment:

Assessment comes in a variety of forms and wherever possible should be used to reflect and enhance the teaching and learning process that occurs in a classroom. Assessment should not be seen as a separate activity, but as an integral part of the teaching and learning process. Alternative assessments apply to any and all assessments that differ from multiple choice, timed, one-shot approaches that characterize most standardized and classroom assessment. Authentic assessments are assessments that engage students in applying knowledge and skills in the same way they are used in the real-world. Performance assessment is a broad term, encompassing many of the characteristics of both authentic and alternative assessments.

As this course of study demonstrates, it is clear that no single type of assessment could provide an accurate measurement of the learning experience. Students should have the best opportunity to demonstrate their understanding of the learning experience. Therefore, it is suggested that a variety of data gathering methods be used such as objective tests, observations, products, written reports, performances and a collection of student works.

The **TIME** column offers a suggested time-line so that all topics listed in the **CONTENT/SKILLS** column are feasibly met. It is understood that times will need adjustments as the course develops. The **APPLICATION/PROJECT IDEAS** column offers suggestions and sources for the teacher. This column should be updated periodically to keep current and as new ideas are generated. The **KEY IDEA/PERFORMANCE INDICATOR** column coordinates topics with the NYS standards.

TIME	CONTENT/SKILLS	APPLICATIONS/PROJECT IDEAS	KEY IDEA/PERFORM INDICATOR
10weeks	<p>Intro to technical drawing/drafting</p> <p>Technical drawing structure</p> <p>Technical sketching</p> <p>Intro to pc lab</p> <p>Intro to cad key for windows</p> <p>Initial exploration of CAD KEY</p> <p>Intro to CAD KEY tool menus</p> <p>“Create” mode</p> <p>“Modify” mode</p> <p>“Rendering”</p> <p>“Layout” mode</p> <p>“Detail” mode</p> <p>Intro. to project grading rubric</p>	<p>Projects are traditional technical drawing tasks taken from a variety of sources. Students follow formal lesson presentations with extended periods of hands on lab activities. The activities are designed to generate skill and knowledge of both technical drawing and software.</p>	MST standard: 1,2,3,5
10 weeks	Basic drawing assignments		
10 weeks	Medium difficulty drawing assignments		
10 weeks	High difficulty drawing assignments		

