

**Drafting and Design Technology  
Unit Calendar (Updated 6/2008)**

1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
<p align="center"><b>Unit 1 (3 Wks)</b></p> <p><b><u>Drafting Basics I</u></b></p> <ul style="list-style-type: none"> <li>• Sketching</li> <li>• Lettering</li> <li>• Math Concepts</li> <li>• Drafting tools &amp; Equipment</li> <li>• Scale &amp; Measurements</li> <li>• Dimensioning &amp; Annotations I</li> <li>• Alphabet of Lines</li> </ul> <p>(Course Standards – 10, 12, 19, 20, &amp; 22)</p> <p align="center"><b>Unit 2 (1 Wk)</b></p> <p><b><u>Explore Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Job Search</li> </ul> <p>• Careers using drafting (Course Standards – 1, 2, 5, 14 &amp; 15)</p> <p align="center"><b>Unit 3 (1 Wk)</b></p> <p><b><u>Intrapersonal Skills</u></b></p> <ul style="list-style-type: none"> <li>• Setting Goals</li> <li>• Professional Dress</li> <li>• Accountability</li> </ul> <p>(Course Standard – 4)</p> <p align="center"><b>Unit 4 (1 Wk)</b></p> <p><b><u>Design Basics</u></b></p> <ul style="list-style-type: none"> <li>• Safety</li> <li>• Quality of Work</li> </ul> <p>(Course Standards – 7 &amp; 8)</p> <p align="center"><b>Unit 5 (3 Wks)</b></p> <p><b><u>Knowledge of Computers and CAD I</u></b></p> <ul style="list-style-type: none"> <li>• Computer Basics</li> <li>• Using CAD software</li> </ul> <p>(Course Standards – 9, 13 &amp; 23)</p>	<p align="center"><b>Unit 6 (3 Wks)</b></p> <p><b><u>Drafting Basics II</u></b></p> <ul style="list-style-type: none"> <li>• Geometric Construction</li> <li>• Orthographic Projections</li> <li>• Dimensioning &amp; Annotations II</li> </ul> <p>(Course Standards – 19, 21 &amp; 22)</p> <p align="center"><b>Unit 7 (2 Wk)</b></p> <p><b><u>Team Leadership I</u></b></p> <ul style="list-style-type: none"> <li>• Work Habits</li> <li>• Team Working</li> <li>• Problem Solving</li> <li>• Team Building</li> </ul> <p>(Course Standards – 3, 8, &amp; 18)</p> <p align="center"><b>Unit 8 (3 Wks)</b></p> <p><b><u>Knowledge of Computers and CAD II</u></b></p> <ul style="list-style-type: none"> <li>• Using CAD software</li> </ul> <p>(Course Standards – 13.1-13.5)</p> <p align="center"><b>Unit 9 (1 Wks)</b></p> <p><b><u>Drafting Basics III</u></b></p> <ul style="list-style-type: none"> <li>• Borders and Titleblocks</li> <li>• Paper Size</li> <li>• Layers</li> </ul> <p>(Course Standard – 22 &amp; 24)</p> <p><b>Design Project I</b></p> <p><b>Semester Exam</b></p>	<p align="center"><b>Unit 10 (3 Wks)</b></p> <p><b><u>Drafting Basics IV</u></b></p> <ul style="list-style-type: none"> <li>• Sections and details</li> <li>• Isometrics</li> <li>• Auxiliary Views</li> </ul> <p>(Course Standards – 22 &amp; 25)</p> <p align="center"><b>Unit 11 (3 Wks)</b></p> <p><b><u>Team Leadership II</u></b></p> <ul style="list-style-type: none"> <li>• Project management I</li> </ul> <p>(SkillsUSA Regional Competition) (Course Standard – 3)</p> <p align="center"><b>Unit 12 (3 Wks)</b></p> <p><b><u>Knowledge of Computers and CAD III</u></b></p> <ul style="list-style-type: none"> <li>• Using CAD software</li> </ul> <p>(Course Standard – 13)</p> <p align="center"><b>SkillsUSA Regional Competition</b></p>	<p align="center"><b>Unit 13 (1 Wks)</b></p> <p><b><u>Drafting Basics V</u></b></p> <ul style="list-style-type: none"> <li>• Blueprints &amp; technical drawings</li> <li>• Engineering Documents</li> </ul> <p>(Course Standards – 11 &amp; 21)</p> <p align="center"><b>Unit 14 (2 Wks)</b></p> <p><b><u>Knowledge of Computers and CAD IV</u></b></p> <ul style="list-style-type: none"> <li>• 3D Modeling</li> </ul> <p>(Course Standard – 13)</p> <p align="center"><b>Unit 15 (5 Wks)</b></p> <p><b><u>Team Leadership III</u></b></p> <ul style="list-style-type: none"> <li>• Project management II</li> </ul> <p>• Understanding profession • Legal and ethical (Course Standards – 3, 5, 6 &amp; 18)</p> <p align="center"><b>Unit 16 (1 Wk)</b></p> <p><b><u>Intrapersonal Skills</u></b></p> <ul style="list-style-type: none"> <li>• Resume writing</li> <li>• Job Application Process</li> <li>• Interviewing</li> </ul> <p>(Course Standard – 14 &amp; 15)</p> <p align="center"><b>SkillsUSA State Competition</b></p> <p><b>Design Project II</b></p> <p><b>Semester Exam</b></p>

**Standards to be covered throughout the year:**

CTSO (4.0), Safety (7.0), Oral Communication (16.0) and Written Communication (17.0)

**Possible Design Project Ideas:**

Magnetic Levitation Test Vehicles  
Egg Drop Cars  
Bridges  
Mouse Trap Cars  
Earthquake Towers