

Trade and Industrial Education
Course: Computer Aided Drafting
Course Code # 5788
2 Credits

School Year _____

Term: X Fall X Spring

Student:	Grade:
Teacher: Owens, J.	School: MCHS
Number of Competencies in Course:	21
Number of Competencies Mastered:	
Percent of Competencies Mastered:	

State wide articulation agreement in Computer Aided Drafting and Advanced Computer Aided Drafting approved at all Tennessee Technology Centers for 972 hours in the TTC Drafting/CAD program.

STANDARD 1.0: Students will demonstrate leadership, citizenship, and teamwork skills required for success in the school, community, and workplace.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
1.1 Exhibit positive leadership skills.			
1.2 Participate in SkillsUSA as an integral part of classroom instruction.			
1.3 Assess situations and apply problem-solving and decision-making skills to particular client relations in the community, and workplace.			
1.4 Demonstrate the ability to work cooperatively with others in a professional setting.			

STANDARD 2.0: Students will demonstrate proficiency in creating manual two-dimensional scale drawings.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
2.1 Create accurate and complete manual scale drawings of two-dimensional objects and two-dimensional plans.			
2.2 Apply drawing dimensioning rules using basic measurement systems.			

STANDARD 3.0: Students will demonstrate proficiency in creating manual three-dimensional scale drawings.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
3.1 Create complete orthographic projections of simple three-dimensional objects.			
3.2 Create complete orthographic projections of complex three-dimensional objects.			

STANDARD 4.0: Students will use the basic functions of a CAD software program to draw two-and three-dimensional objects.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
4.1 Perform basic CAD software operations.			
4.2 Use standard templates and create new templates for CAD drawing.			
4.3 Use a CAD program to draw and dimension simple two-dimensional objects.			
4.4 Use a CAD program to draw and dimension orthographic projections of three-dimensional objects.			

STANDARD 5.0: Students will demonstrate proficiency in creating sectional and pictorial drawings using a CAD software program.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
5.1 Create sectional views of moderately complex solid objects.			
5.2 Create pictorial drawings of a group of objects using a CAD program.			

STANDARD 6.0: Students will use CAD software skills to produce complete sets of project drawings.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
6.1 Draw individual components of a project using a CAD program.			
6.2 Make assembly drawings including exploded assemblies, for a project, using a CAD program.			
6.3 Create a bill of materials for a project using a CAD program.			

STANDARD 7.0: Students will take personal responsibility for the safety of themselves, their co-workers, and bystanders.

7.1	Determine safe and correct procedures for working with computer equipment. Follow Occupational Safety & Health Administration (OSHA), Environmental Protection Agency (EPA) regulations, and manufactures' specifications according to the computer aided drafting industry. Comprehend the importance of a safe work environment.		
7.2	Pass with 100 % accuracy a written examination relating specifically to the computer aided drafting industry.		
7.3	Pass with 100% accuracy a performance examination relating specifically to the computer aided drafting industry.		
7.4	Maintain a portfolio record of written safety examinations and equipment examinations for which the student has passed an operational checkout by the instructor.		

Additional Comments _____