



**CADD III**

Teacher: Scott Danielson

**September 2020**  
CADD III

Content	Skills	Learning Targets	Standards	Assessment	Resources & Technology
<p><b>CEQ:</b> <b>WHAT AND HOW IS COMPUTER AIDED DRAFTING AN INFLUENCE IN INDUSTRY?</b></p> <p><b>UEQ:</b> •<i>What is this course about and what is expected of students?</i></p> <p><b>A. Course Introduction</b> A1. Class Outline A2. Grading procedure </p> <p><b>UEQ:</b> •<i>What careers are available with drafting training?</i></p> <p><b>B. Careers</b></p>	<p><b>A. Course Introduction</b></p> <p>A1. Identify how computer-aided drafting (CAD) impacts the manufacturing industry A2. List required projects and grading method.</p> <p><b>B. Careers</b></p> <p>B1. Identify possible career opportunities in drafting today.</p>	<p><b>A. Course Introduction</b></p> <p>A1. I can identify 5 ways CAD impacts manufacturing. A2. I can keep a portfolio of all materials required for this course</p> <p><b>B. Careers</b></p> <p>B1. I can list 8 occupations that might interest me related to</p>		<p><b>A. Course Introduction</b></p> <p>A1. Discussion with students A2. Portfolio</p> <p><b>B. Careers</b></p> <p>B1. List</p>	<p><b>A. Course Introduction</b></p> <p><b>B. Careers</b></p> <p>B1. World Wide Web B1. Engineering Drawing and Design - Delmar publishing -pages 2-13</p>


<p>UEQ:</p> <p>•<i>How is a real-world design problem refated to the mechanical computer-aided drafting and design?</i></p> <p><b>C. Problem Solving and Design</b></p> <p>C1. Design process C2. Design briefs C3. Multi-media presentation</p> 	<p><b>C. Problem Solving and Design</b></p> <p>C1-C2. Apply drafting and design applications from CADD 1 &amp; 2 to real-world design problems. C1. Students work collaboratively to apply the design process to model a solution to a design problem. C1. Students create timelines and distribute modeling responsibilities to each member of their group. C2. Create rendered views of their project with appropriate materials and shading. C3. Create multi-media presentation of their group project.</p>	<p>drafting careers</p> <p><b>C. Problem Solving and Design</b></p> <p>C1-C2. I can apply drafting and design applications from CADD 1 &amp; 2 to real-world design problems. C1. I can work collaboratively to apply the design process to model a solution to a design problem. C1. I can create timelines and distribute modeling responsibilities to each member of my group. C2. I can create rendered views of my project with appropriate materials and shading. C3. I can create multi-media presentation of my group project.</p>	<p>career activity</p> <p><b>C. Problem Solving and Design</b></p> <p>C1-C2 Technical drawing graded to standardized grading rubric. C1-C2. Design briefs are assigned to groups for collaborative effort to propose solutions to problems associated with mechanical and industrial design. C1-C2. Students</p>	<p><b>C. Problem Solving and Design</b></p> <p>C1-C2. Engineering Drawing and Design - Delmar publishing - pages 134-144 C1-C3. World-Wide Web</p>
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				<p>applied rendering tools and materials to create photo-realistic representation of their project. C3. Students use powerpoint to create slide presentations.</p>	
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**October 2019**

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<p>UEQ: •How can solid modeling enhance the design process?</p> <p><b>D. Solid Modeling</b></p> <p>D1. Pictorial views D2. Rapid prototyping D3. Predicting</p>	<p><b>D. Solid Modeling</b></p> <p>D1-D2. Apply advanced CAD techniques D1-D2. Generate presentation/production</p>	<p><b>D. Solid Modeling</b></p> <p><b>D1-D2. I can apply advanced CAD techniques</b> <b>D1-D2. I can generate</b></p>	<p><b>D. Solid Modeling</b></p> <p>D1-D2. CSA-Technical drawings D1-D3. CSA- CAM problem from solid</p>	<p><b>D. Solid Modeling</b></p> <p>D1-D3. Engineering Drawing and Design - Delmar publishing - pages 97-131</p>

material properties for preproduction phases 	prints D1-D3. Construct solid modeling drawings. D1-D3. Illustrate solid models by rendering objects through Inventor. D1-D3. Convert Inventor drawings into a CAM (Computer Aided Manufacturing) process.	<b>presentation/production prints</b> <b>D1-D3. I can construct solid modeling drawings.</b> <b>D1-D3. I can daw solid models by rendering objects through Inventor.</b> <b>D1-D3. I can convert Inventor drawings into a CAM (Computer Aided Manufacturing) process.</b>	modeling handout D3. CSA- Rapid prototyping problem from solid modeling handout	D1-D3. Fundamentals of Engineering Drawing- Glencoe - pages511-521
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November 2019

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UEQ: <i>•What is the importance of technical writing in the workplace?</i> <b>E.Technical Writing</b>  E1. Importance of technical writing. E2. Accommodating the needs of the audience. E3. Importance of good grammar E4. Importance of	<b>E.Technical Writing</b>  E1. Review models of writing- technical,research, and personal. E2. Examine newspapers and phonebooks-multiple audiences. E2. Examine television audiences, magazine	<b>E.Technical Writing</b>  E1. I can review models of writing- technical,research, and personal. E2. I can examine newspapers and phonebooks-multiple audiences. E2. I can examine	<b>E.Technical Writing</b>  E1- E5. Teacher Observation E1- E5. Text reading E1- E5. Graded project and activities E1- E5. Completion of template worksheets	<b>E.Technical Writing</b>  E1-E5. Engineering Drawing and Design - Delmar publishing - pages677-681 E1-E5. Technical writing for Success: A School-to-Work Approach

<p>good communication. E5. Importance of designing and constructing visual aids</p> 	<p>readers/audiences. E3. Demonstrate control over the uses of various kinds of subjects, predicates, and complements by identifying them and using them correctly. E4. Examine collections of junk e-mail. E4. Discuss similarities and differences between business letters, business phone calls and faxes. E5. Recognize errors in textbook visuals E5. Practice page design. E5. Create drawings with Inventor software</p>	<p>television audiences, magazine readers/audiences. E3. I can demonstrate control over the uses of various kinds of subjects, predicates, and complements by identifying them and using them correctly. E4.I can examine collections of junk e-mail. E4. I can discuss similarities and differences between business letters, business phone calls and faxes. E5. I can recognize errors in textbook visuals E5. I can practice page design. E5. I can create drawings with Inventor software</p>		
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