



## DDGT 120 DIGITAL DESIGN GRAPHICS TECHNOLOGY 1 - FALL 2024

### Lecture and Assignment Schedule

[www.ddgt.net](http://www.ddgt.net)

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WEEK	DAY	LECTURE	ASSIGNMENT
1	8/26	<ul style="list-style-type: none"><li>- Introduction to DDGT 120 Course</li><li>- Overview of Syllabi and Schedule</li><li>- Kitchen Safety</li><li>- A.S. Certificate and Certificate of Achievement Requirements / Curriculum Training / Online Catalog</li><li>- Student Login Process</li><li>- Canvas / Microsoft Products Access</li><li>- Phone App</li><li>- Dropbox Submission Setup</li><li>- Software Installations: AutoCAD and Inventor</li></ul>	<ul style="list-style-type: none"><li>#1 - Signed Syllabus</li><li>#2 - Signed Kitchen Safety</li></ul> <p>Bring in a 3" Binder (or two 1.5" binders)</p> <p><b>TGC Read 5.1-5.6, 5.8-5.10 Design Visualization</b> <b>DUE 8/27 - BEFORE CLASS</b></p>
	8/27	<ul style="list-style-type: none"><li>Review of Chapter 5.1-5.6, 5.8-5.10 Design Visualization</li><li>Windows File Management</li><li>Passwords File</li></ul>	<ul style="list-style-type: none"><li>#3 - Handout 5.52 Match objects with target shapes p168</li><li>#4 - Handout 5.53 Match objects with target shapes p169</li><li>#5 - Handout 5.54 P or Q p170</li><li>#6 - Handout 5.62 Match Objects</li></ul> <p><b>TGC Read Chapter 6 Technical Drawing Tools</b> <b>DUE 8/28 - BEFORE CLASS</b></p>
	8/28	<ul style="list-style-type: none"><li>Review Chapter 6 Technical Drawing Tools - Computer Parts Scales - Metric</li></ul>	<ul style="list-style-type: none"><li>#7 - 6.5 Reading Metric Scales (p225)</li></ul>
	8/29	<ul style="list-style-type: none"><li>Review Chapter 6 Technical Drawing Tools - Drafting Tools Scales - Engineering</li></ul>	<ul style="list-style-type: none"><li>#8 - Reading Engineer's Scale (p226)</li></ul>

**CANVAS DISCUSSION 1 -**  
**TGC Read Chapter 7.1-7.9, 7.11-7.12**  
**Sketching and Text**  
**DUE 9/5 - BEFORE CLASS**

**CANVAS QUIZ 1 - TGC Chapters 5 and 6**  
**DUE 9/5 - BEFORE CLASS**

2	9/2	HOLIDAY - LABOR DAY	
	9/3	Ascent Chapter 1 - Getting Started with AutoCAD Scales - Architectural Scales - Architect vs Engineer	CLASS PARTICIPATION - SEPTEMBER MEETING <b>DUE END OF SEPTEMBER</b>
	9/4	Ascent Chapter 2 - Basic Drawing & Editing Commands Ascent Chapter 4 - Drawing Precision in AutoCAD	#9 - Reading Architect's Scale (p227) #10 - Architect Fractional Inch vs Engineer Decimal Inch Comparison #11 - ASCENT - Practice 2A
	9/5	Review Chapter 7 and Linetypes Ascent Chapter 5 - Making Changes in Your Drawing + Offset and Align Handout: 1-23 Scales	#12 - Handout 1-23 Scales #13 - ASCENT - Practice 5B <b>CANVAS QUIZ 2 - TGC Chapter 7</b> <b>DUE 9/12 - BEFORE CLASS</b>  <b>CANVAS DISCUSSION 2 -</b> <b>TGC Read Chapter 8.1-8.5, 8.10-8.11, 8.12.1</b> <b>Engineering Geometry and Construction</b> <b>DUE 9/12 - BEFORE CLASS</b>
3	9/9	Demo 4-37	<b>SINGLE VIEW DRAWINGS:</b>

Assignment Clarification:

*This may look alarming that I am assigning assignments #14 - #27 all at once. Do not be alarmed, this is only to let you know you have the skills to work on these assignments at this point. Please work on them in sequential order at your own pace.*

*Your goal should be to have the majority of these assignments completed by the time we cover Chapter 10 - Multiview Drawings in the TGC textbook in order to stay on track in class.*

- #14 - AutoCAD 4-37 Template **OR** 8.141 Centering Plate\*
- #15 - AutoCAD 4-39 Shaft Support **OR** 8.142 Reference Plate\*
- #16 - AutoCAD 4-38 Carburetor Gasket **OR** 4-30\*
- #17 - AutoCAD 4-36 Gasket
- #18 - AutoCAD 4-46 Reel Slide **OR** 8.149 Multi Port\*
- #19 - AutoCAD 5-31 Adjustable Fork **OR** 8.148 Harness Guide\*
- #20 - AutoCAD 8-100 Gasket
- #21 - AutoCAD Third Angle Projection Symbol (FOLLOW ONLINE VIDEO)
- #22 - AutoCAD Title Block ANSI A (FOLLOW ONLINE VIDEO)
- #23 - AutoCAD Title Block ANSI B (FOLLOW ONLINE VIDEO)
- #24 - AutoCAD Title Block ANSI C (FOLLOW ONLINE VIDEO)
- #25 - AutoCAD Title Block ANSI D (FOLLOW ONLINE VIDEO)
- #26 - AutoCAD Title Block ARCH D (FOLLOW ONLINE VIDEO)
- #27 - AutoCAD 8.151 Filter (p393)

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9/10 LAB DAY

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9/11 Ascent Chapter 7 - Organizing Your Drawing with Layers  
TEMPLATES SESSION 1 - Introduction / Layers

**CANVAS DISCUSSION 3 -**  
**TGC Read Chapter 10 Multiview Drawings**  
**DUE 9/18 - BEFORE CLASS**

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9/12 Review Chapter 8 Geometry and Construction

**CANVAS QUIZ 3 - TGC Chapter 8**  
**DUE 9/19 - BEFORE CLASS**

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4 9/16 Demo 4-36

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9/17 Ascent Chapter 8 - Advanced Object Types

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9/18 Review Chapter 10 Multiview Drawings

**MULTI-VIEW DRAWINGS:**

Assignment Clarification:

*This may look alarming that I am assigning assignments #29 - #32 all at once. Do not be alarmed, this is only to let you know you have the skills to work on these assignments at this point. Please work on them in sequential order at your own pace.*

*Your goal should be to have the majority of these assignments completed by the time we cover Chapter 13 - Auxiliary Views in the TGC textbook in order to stay on track in class.*

- #29 - AutoCAD 5-32 Rocker Arm **OR** 8-89 Bracket\*
- #30 - AutoCAD 6-80 Adjusting Guide **OR** 6-81 Flanged Support\*
- #31 - AutoCAD 6-85 Angle Block
- #32 - AutoCAD 6-86 Base Plate **OR** 6-89 Base\*

**CANVAS QUIZ 4 - Chapter 10**

**DUE 9/25 - BEFORE CLASS**

**CANVAS DISCUSSION 4 -**

**TGC Read Chapter 13 Auxiliary Views**

**DUE 9/25 - BEFORE CLASS**

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9/19 Ascent Chapter 9 - Getting Information from your Drawing

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5 9/23 Ascent Chapter 11 - Advanced Editing Commands

- #33 - Handout 5.55 Surface Match p171
- #34 - TGC p293 Problem 7.2 Multiview sketching problems 1-11 odd in AutoCAD
- Draw a TOP, FRONT, and RIGHT SIDE for each one.

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9/24 Ascent Chapter 12 - Blocks  
TEMPLATES SESSION 2 - Blocks  
3rd Angle Projection and Metric Symbols  
Titleblocks

- #36 - TGC p294 Problem 7.2 Multiview sketching problems 13-23 odd in AutoCAD
- Draw a TOP, FRONT, and RIGHT SIDE for each one.

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9/25 Review Chapter 13 Auxiliary Views  
Ascent Chapter 27 - Creating Templates

**AUXILIARY VIEW DRAWINGS:**

Assignment Clarification:  
*This may look alarming that I am assigning assignments #37 - #40 all at once. Do not be alarmed, this is only to let you know you have the skills to work on these assignments at this point. Please work on them in sequential order at your own pace.*

- #37 - 7-43 Angle Bracket **OR** 13.22 Auto Stop\*
- #38 - 7-46 Cross Slide Bracket **OR** 8-19\*
- E.C.#1 - 7-53 Connecting Bar (Extra Credit)
- #39 - 7-58 Hexagon Slot Support
- #40 - 7-59 Dovetail Bracket
- E.C.#2 - 7-60 Pivot Arm (Extra Credit)

*Your goal should be to have the majority of these assignments*

*completed by the time we cover Chapter 17.1-17.4 -  
Dimensioning Practices in the TGC textbook in order to stay on  
track in class.*

**CANVAS QUIZ 5 - TGC Chapter 13  
DUE 10/2 - BEFORE CLASS**

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	9/26	Ascent Chapter 14 - Setting Up a Layout Ascent Chapter 15 - Printing Your Drawing TEMPLATES SESSION 3 - Layout Tabs CTB File Creation	#41 - TGC p295 Problem 7.2 Multiview sketching problems 25-35 odd in AutoCAD
6	9/30	TEMPLATES SESSION 4 - Title Strip Border, 3rd Angle Projection, and Metric Symbols	
	10/1	Ascent Chapter 29 - Annotation Styles TEMPLATES SESSION 5 - Styles	CLASS PARTICIPATION - OCTOBER MEETING <b>DUE END OF OCTOBER</b>
	10/2	Ascent Chapter 17 - Text TEMPLATES SESSION 6 - Title Block Text / Key / Legend / General Notes	#42 - TGC p296 Problem 7.2 Multiview sketching problems 37-47 odd in AutoCAD Draw a TOP, FRONT, and RIGHT SIDE for each one.
			<b>CANVAS DISCUSSION 5 - TGC Read Chapter 17.1-17.4 Dimensioning Practices DUE 10/9 - BEFORE CLASS</b>
	10/3	Ascent Chapter 17 - Tables TEMPLATES SESSION 6 - Title Block Text / Key / Legend / General Notes Continued	#43 - TGC p297 Problem 7.2 Multiview sketching problems 49-59 odd in AutoCAD Draw a TOP, FRONT, and RIGHT SIDE for each one.
7	10/7	TEMPLATES SESSION 7 - Parts List / Revision Table Note: Business Cards will be brought in as DWG XREF's (use absolute path) Layer Properties, show non-xref layers	#44 - TGC p298 Problem 7.2 Multiview sketching problems 61-71 odd in AutoCAD Draw a TOP, FRONT, and RIGHT SIDE for each one.

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10/8	TEMPLATES SESSION 8 - Templates Completed Metric Tolerances Update Global Variables	#45 - Handout TGC p548 Problem 10.4 Two-View drawings of several objects 1-11 odd in AutoCAD Draw a TOP, FRONT, and RIGHT SIDE for each one.
<b>Notes: Reminder that Metric Template Tolerances in Title Strip are different than Imperial.</b>		
10/9	Review Chapter 17.1 - 17.4 Dimensioning Practices	#46 - Handout TGC p549 Problem 10.4 Two-View drawings of several objects 13-23 odd in AutoCAD Draw a TOP, FRONT, and RIGHT SIDE for each one.  <b>CANVAS QUIZ 6 - TGC Chapter 17.1 - 17.4</b> <b>DUE 10/16 - BEFORE CLASS</b>  <b>CANVAS DISCUSSION 6 -</b> <b>TGC Read Chapter 16 Section Views</b> <b>DUE 10/16 - BEFORE CLASS</b>
10/10	Ascent Chapter 28 - Advanced Layouts	#48 - Handout TGC p550 Problem 10.4 Two-View drawings of several objects 25-36 odd in AutoCAD Draw a TOP, FRONT, and RIGHT SIDE for each one.
8	10/14 Ascent Chapter 19 - Adding Dimensions Demo 8-100 (Video)	<b>WORKING DRAWINGS:</b>  #51 - AutoCAD 8-100 Gasket Working Drawing (Print) #52 - AutoCAD 8-83 Adjustable Table Support Working Drawing <b>OR</b> 8-86 Adjustable Sector* (Visual Check-Off)
<i><u>Assignment Clarification:</u></i> <i>Your goal should be to have the majority of these assignments completed by the time we cover Chapter 16 - Section Views in the TGC textbook in order to stay on track in class.</i>		
10/15	Lab Day	#53 - Handout TGC p551 Problem 10.5 Three incomplete views of multiview drawing of an object 1-11 odd in AutoCAD Draw a TOP, FRONT, and RIGHT SIDE for each one.

10/16 Review Chapter 16  
Ascent Chapter 18 - Hatching

#54 - Handout TGC p552 Problem 10.5 Three incomplete views of  
multiview drawing of an object 13-23 odd

Assignment Clarification:

*Your goal should be to have the majority of these assignments  
completed by the time we cover Chapter 17.5 - 17.9 - Tolerancing  
in the TGC textbook in order to stay on track in class.*

**SECTIONING DRAWINGS:**

#56 - AutoCAD 9-35 Shaft Base Working Drawing with 3D Cover  
Page ANSI B Scale 1:2

#57 - AutoCAD 9-39 Casing Working Drawing with 3D Cover Page  
ANSI B Scale 1:2

**CANVAS QUIZ 7 - TGC Chapter 16**  
**DUE 10/23 - BEFORE CLASS**

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10/17 Ascent Chapter 21 - Working Effectively with AutoCAD

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9 10/21 Ascent Chapter 22 - Accurate Positioning

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10/22 Ascent Chapter 24 - Parametric Drawing

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10/23 Ascent Chapter 25 - Working With Blocks

#60 - AutoCAD 9-51 Caster WD with 3D AutoCAD - ANSI B Scale  
1:2

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10/24 Ascent Chapter 31 - External References

#61 - AutoCAD 8-72 Template as XREF Working Drawing  
Imperial - ANSI B Scale 1:1 Visual Checkoff

**CANVAS QUIZ 9 - ASCENT AutoCAD Fundamentals**  
**DUE 11/12 - MIDNIGHT**

**CANVAS DISCUSSION 7 -**  
**TGC Read Chapter 17.5-17.9 Tolerancing Practices**  
**DUE 10/31 - BEFORE CLASS**

10	10/28	Lab Day	#62 - AutoCAD 8-72 Template as XREF Working Drawing Revision 1 Imperial - ANSI D Scale 2:1 (see instructor) Visual Checkoff
	10/29	Lab Day	
	10/30	Autodesk Certificate DOC Folder / Certificates / Username + Password	#63 - AutoCAD 9-51 Caster Working Drawing with 3D Imperial - ANSI D Scale 1:1 Visual Checkoff
	10/31	Review Chapter 17.5-17.9 Tolerancing Practices	<b>CANVAS Quiz 8 - TGC Chapter 17.5-17.9 DUE 11/7 - BEFORE CLASS</b>
11	11/4	AutoCAD 3D Modeling Tools Solids vs. Surfaces, Visual Styles, 3D Space	CLASS PARTICIPATION - NOVEMBER MEETING <b>DUE END OF NOVEMBER</b>
	11/5	AutoCAD 3D Modeling Tools Revolve, Extrude, Subtract, and Union	
	11/6	AutoCAD 3D Modeling Tools Revolve, Extrude, Subtract, and Union (Continued) Face Extrude, Push Pull	
	11/7	AutoCAD 3D Modeling Tools 3D Layouts and Annotations	#64 - AutoCAD 9-39 Casing Working Drawing with 3D Cover Page ANSI D Scale 1:1 Visual Checkoff
12	11/11	HOLIDAY - VETERANS DAY	
	11/12	Demo Reverse Engineering	#66 - AutoCAD Reverse Engineering: 9-37 Slide Bracket - Imperial
	11/13	Inventor Overview, Project Setup, Parts	#67 - Inventor 9-51 Caster Working Drawing #68 - Inventor 14-90 Caster Working Drawing
	11/14	Inventor Parts (Continued)	



13	11/18	Inventor Parts (Continued) Sheet Metal Video will be available online	#69 - 23-54 Motor Support Inventor Sheet Metal (Online Video)
	11/19	Inventor Assemblies	
	11/20	Inventor Assemblies (Continued)	
	11/21	Inventor Presentations	
14	11/25	Inventor Drawings	
	11/26	Inventor Drawings (Continued)	
	11/27	LAB DAY	
	11/28	HOLIDAY - THANKSGIVING RECESS	
15	12/2	Inventor Trolley Demo - Instructor to go through entire project at instructor speed, recorded for student review.	#70 - Inventor 14-83 Trolley Working Drawing (Online Videos)
	12/3		
	12/4	Inventor Templates (Watch online video lecture)	
	12/5	Inventor Templates Continued (Watch online video lecture)	
16	12/9	Inventor Drawing Resource Transfer Wizard 14-83 Sub-Assemblies and Bill of Materials (BOM) (Watch online video lecture)	<b>QUIZ - INVENTOR</b> <b>DUE 12/12 - MIDNIGHT</b>
		INVENTOR REVIEW	
	12/10	FINAL REVIEW	<b>FINAL</b> <b>DUE 12/12 - MIDNIGHT</b>

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12/11 LAB DAY

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12/12 LAB DAY

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\* If you took DDGT110 in the last year, please do this alternate assignment.  
*The instructor reserves the right to change the schedule as the instructor sees fit.*

*Revised 8/25/2024 GS v1.0*