



DDGT 120 DIGITAL DESIGN GRAPHICS TECHNOLOGY 1 - FALL 2025

Lecture and Assignment Schedule

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WEEK	DAY	LECTURE	ASSIGNMENT
1	8/25	<ul style="list-style-type: none">- Introduction to DDGT 120 Course- Overview of Syllabi and Schedule- Kitchen Safety- A.S. Certificate and Certificate of Achievement Requirements / Curriculum Training / Online Catalog- Student Login Process- Canvas / Microsoft Products Access- Phone App- Dropbox Submission Setup- Software Installations: AutoCAD and Inventor	<ul style="list-style-type: none">#0 Download and Install AutoCAD#1 - Signed Syllabus#2 - Signed Kitchen SafetyBring in a 3" Binder (or two 1.5" binders) <p>TGC Read 5.1-5.6, 5.8-5.10 Design Visualization DUE 8/26 - BEFORE CLASS</p>
	8/26	<ul style="list-style-type: none">Review of Chapter 5.1-5.6, 5.8-5.10 Design VisualizationWindows File ManagementPasswords File	<p>TGC Read Chapter 6 Technical Drawing Tools DUE 8/27 - BEFORE CLASS</p>
	8/27	<ul style="list-style-type: none">Review Chapter 6 Technical Drawing Tools - Computer PartsScales - Metric	<ul style="list-style-type: none">#3 - Handout 5.52 Match objects with target shapes p168#4 - Handout 5.53 Match objects with target shapes p169#5 - Handout 5.54 P or Q p170#6 - Handout 5.62 Match Objects#7 - 6.5 Reading Metric Scales (p225)
	8/28	<ul style="list-style-type: none">Review Chapter 6 Technical Drawing Tools - Drafting ToolsScales - Engineering	<ul style="list-style-type: none">#8 - Reading Engineer's Scale (p226)

CANVAS QUIZ 1 - TGC Chapters 5 and 6
DUE 9/4 - BEFORE CLASS

2	9/1	HOLIDAY - LABOR DAY	
	9/2	Ascent Chapter 1 - Getting Started with AutoCAD	CLASS PARTICIPATION - SEPTEMBER MEETING DUE END OF SEPTEMBER
	9/3	Scales - Architectural Scales - Architect vs Engineer	#9 - Reading Architect's Scale (p227) #10 - Architect Fractional Inch vs Engineer Decimal Inch Comparison
	9/4	Review Chapter 7 and Linetypes Handout: 1-23 Scales	#12 - Handout 1-23 Scales
			CANVAS QUIZ 2 - TGC Chapter 7 DUE 9/11 - BEFORE CLASS
3	9/8	Ascent Chapter 2 - Basic Drawing & Editing Commands Ascent Chapter 4 - Drawing Precision in AutoCAD	#11 - ASCENT - Practice 2A
	9/9	Ascent Chapter 5 - Making Changes in Your Drawing + Offset and Align	#13 - ASCENT - Practice 5B
	9/10	Ascent Chapter 7 - Organizing Your Drawing with Layers Demo 4-37	

SINGLE VIEW DRAWINGS:

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)

9/11 Review Chapter 8 Geometry and Construction

CANVAS QUIZ 3 - TGC Chapter 8
DUE 9/18 - BEFORE CLASS

4 9/15 TEMPLATES SESSION 1 - Introduction / Layers

9/16 Ascent Chapter 8 - Advanced Object Types

9/17 Review Chapter 10 Multiview 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 12 - Auxiliary Views in

MULTI-VIEW DRAWINGS:

- #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 9/24 - BEFORE CLASS

completed by the time we cover Chapter 15 - Auxiliary Views in the TGC textbook in order to stay on track in class.

9/18 Ascent Chapter 9 - Getting Information from your Drawing		
5	9/22 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.
	9/23 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.
	9/24 Review Chapter 13 Auxiliary Views Ascent Chapter 27 - Creating Templates <p style="text-align: center;"><u>Assignment Clarification:</u></p> <p><i>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.</i></p> <p><i>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.</i></p>	<p>AUXILIARY VIEW DRAWINGS:</p> <p>#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)</p> <p>CANVAS QUIZ 5 - TGC Chapter 13 DUE 10/1 - BEFORE CLASS</p>
	9/25 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 9/29 TEMPLATES SESSION 4 - Title Strip Border, 3rd Angle Projection,
and Metric Symbols

	9/30	Ascent Chapter 29 - Annotation Styles TEMPLATES SESSION 5 - Styles	CLASS PARTICIPATION - OCTOBER MEETING DUE END OF OCTOBER
	10/1	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.
	10/2	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	10/6	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.
	10/7	TEMPLATES SESSION 8 - Templates Completed Metric Tolerances Update Global Variables Layer Overrides (Dims, Hatch)	#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.
Notes: Reminder that Metric Template Tolerances in Title Strip are different than Imperial.			
	10/8	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.

CANVAS QUIZ 6 - TGC Chapter 17.1 - 17.4
DUE 10/15 - BEFORE CLASS

	10/9	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	10/13	Ascent Chapter 19 - Adding Dimensions Demo 8-100 (Video) <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>	WORKING DRAWINGS: #51 - AutoCAD 8-100 Gasket Working Drawing (Print) #52 - AutoCAD 8-83 Adjustable Table Support Working Drawing OR 8-86 Adjustable Sector* (Visual Check-Off)
	10/14	How to Fix Missing XREF's How to create a missing CTB file	#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.
	10/15	Review Chapter 16 Ascent Chapter 18 - Hatching <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 17.5 - 17.9 - Tolerancing in the TGC textbook in order to stay on track in class.</i>	#54 - Handout TGC p552 Problem 10.5 Three incomplete views of multiview drawing of an object 13-23 odd 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 10/22 - BEFORE CLASS
	10/16	Assignment 56 Demo 9-35 Shaft Base	
9	10/20	Ascent Chapter 21 - Working Effectively with AutoCAD	
	10/21	Ascent Chapter 22 - Accurate Positioning Ascent Chapter 24 - Parametric Drawing (OPTIONAL)	

	10/22	Ascent Chapter 25 - Working With Blocks	#60 - AutoCAD 9-51 Caster WD with 3D AutoCAD - ANSI B Scale 1:2
	10/23	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 11/11 - MIDNIGHT
10	10/27	Lab Day	#62 - AutoCAD 8-72 Template as XREF Working Drawing Revision 1 Imperial - ANSI D Scale 2:1 (see instructor) Visual Checkoff
	10/28	Lab Day	
	10/29	Autodesk Certificate DOC Folder / Certificates / Username + Password	#63 - AutoCAD 9-51 Caster Working Drawing with 3D Imperial - ANSI D Scale 1:1 Visual Checkoff
	10/30	Review Chapter 17.5-17.9 Tolerancing Practices	CANVAS Quiz 8 - TGC Chapter 17.5-17.9 DUE 11/6 - BEFORE CLASS
11	11/3	AutoCAD 3D Modeling Tools Solids vs. Surfaces, Visual Styles, 3D Space Assignment 56 Shaft Base 3D Demo	CLASS PARTICIPATION - NOVEMBER MEETING DUE END OF NOVEMBER
	11/4	AutoCAD 3D Modeling Tools Revolve, Extrude, Subtract, and Union Assignment 60 Caster 3D Demo	
	11/5	AutoCAD 3D Modeling Tools Revolve, Extrude, Subtract, and Union (Continued) Face Extrude, Push Pull Assignment 60 Caster 3D Demo	

11/6 AutoCAD 3D Modeling Tools
3D Layouts and Annotations
Assignment 60 Caster 3D Demo

#64 - AutoCAD 9-39 Casing Working Drawing with 3D Cover Page
ANSI D Scale 1:1 Visual Checkoff

12 11/10 Assignment 60 Caster 3D Demo
Demo Reverse Engineering

#66 - AutoCAD Reverse Engineering:
9-37 Slide Bracket - Imperial
Printed part is actual size
Working Drawing with 3D

11/11 HOLIDAY - VETERANS DAY

11/12 Inventor Overview, Project Setup, Parts

#67 - Inventor 9-51 Caster Working Drawing
#68 - Inventor 14-90 Caster Working Drawing

11/13 Inventor Parts (Continued)

13 11/17 Inventor Parts (Continued)
Sheet Metal Video will be available online

#69 - 23-54 Motor Support Inventor Sheet Metal
(Online Video)

11/18 Inventor Assemblies

11/19 Inventor Assemblies (Continued)

11/20 Inventor Presentations

14 11/24 Inventor Drawings

11/25 Inventor Drawings (Continued)

11/26 LAB DAY

11/27 HOLIDAY - THANKSGIVING RECESS

15 12/1 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)

	12/2	LAB DAY	
	12/3	Inventor Templates (Watch online video lecture)	
	12/4	Inventor Templates Continued (Watch online video lecture)	
16	12/8	Inventor Drawing Resource Transfer Wizard 14-83 Sub-Assemblies and Bill of Materials (BOM) (Watch online video lecture)	QUIZ 10 - INVENTOR DUE 12/11 - MIDNIGHT
		FINAL REVIEW	FINAL DUE 12/11 - MIDNIGHT
	12/9	LAB DAY	
	12/10	LAB DAY	
	12/11	LAB DAY	

* 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 8/5/2025 GS