



DIGITAL DESIGN GRAPHICS TECHNOLOGY - DDGT 120 FALL 2023

Lecture and Assignment Schedule

www.ddgt.net

707-256-7526

WEEK	DAY	LECTURE	ASSIGNMENT
1	8/14	<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 / Email Setup / Email Forwarding- Phone App- Autodesk Certified Professional Exam Description- Dropbox Submission Setup- Software Installations: AutoCAD and Inventor	<ul style="list-style-type: none">#1 - Signed Syllabus#2 - Signed Kitchen Safety <p>Bring in a 3" Binder (or two 1.5" binders)</p> <p>TGC Read 5.1-5.6, 5.8-5.10 Design Visualization DUE 8/15 8:45am</p>
	8/15	<ul style="list-style-type: none">Review of Chapter 5.1-5.6, 5.8-5.10 Design VisualizationWindows File ManagementPasswords File	<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 <p>TGC Read Chapter 6 Technical Drawing Tools DUE 8/16 8:45am</p>
	8/16	<ul style="list-style-type: none">Review Chapter 6 Technical Drawing Tools - Computer PartsScales - Metric	<ul style="list-style-type: none">#7 - 6.5 Reading Metric Scales (p225)

8/17 Review Chapter 6 Technical Drawing Tools - Drafting Tools
Scales - Engineering

#8 - Reading Engineer's Scale (p226)

CANVAS DISCUSSION 1 -

TGC Read Chapter 7.1-7.9, 7.11-7.12

Sketching and Text

DUE 8/23 8:45am

CANVAS QUIZ 1 - TGC Chapters 5 and 6

DUE 8/24 8:45am

2 8/21 Ascent Chapter 1 - Getting Started with AutoCAD
Scales - Architectural
Scales - Architect vs Engineer

8/22 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

8/23 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

CANVAS QUIZ 2 - TGC Chapter 7

DUE 8/30 8:45am

CANVAS DISCUSSION 1 - FOLLOW UP

TGC Chapter 7.1-7.9, 7.11-7.12

Sketching and Text

DUE 8/30 8:45am

CANVAS DISCUSSION 2 -

TGC Read Chapter 8.1-8.5, 8.10-8.11, 8.12.1

Engineering Geometry and Construction

DUE 8/30 8:45am

8/24 Demo 4-37

SINGLE VIEW DRAWINGS:

- #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 (Watch Online Video)
- #22 - AutoCAD Title Block ANSI A (Watch Online Video)
- #23 - AutoCAD Title Block ANSI B (Watch Online Video)
- #24 - AutoCAD Title Block ANSI C (Watch Online Video)
- #25 - AutoCAD Title Block ANSI D (Watch Online Video)
- #26 - AutoCAD Title Block ARCH D (Watch Online Video)
- #27 - AutoCAD 8.151 Filter (p393)

3 8/28 LAB DAY

8/29 Ascent Chapter 7 - Organizing Your Drawing with Layers
TEMPLATES SESSION 1 - Introduction / Layers

8/30 Review Chapter 8 Geometry and Construction

CANVAS QUIZ 3 - TGC Chapter 8
DUE 9/6 8:45am

CANVAS DISCUSSION 2 - FOLLOW UP
TGC Chapter 8.1-8.5, 8.10-8.11, 8.12.1
Engineering Geometry and Construction
DUE 9/6 8:45am

CANVAS DISCUSSION 3 -
TGC Read Chapter 10 Multiview Drawings
DUE 9/6 8:45am

8/31 Demo 4-36

#28 - SEPTEMBER MEETING

4	9/4	HOLIDAY - LABOR DAY	
	9/5	Ascent Chapter 8 - Advanced Object Types	
	9/6	Review Chapter 10 Multiview Drawings	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 9/13 8:45am
			CANVAS DISCUSSION 3 - FOLLOW UP TGC Chapter 10 Multiview Drawings DUE 9/13 8:45am
	9/7	Ascent Chapter 9 - Getting Information from your Drawing	
5	9/11	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 on graph paper
			CANVAS DISCUSSION 4 - TGC Read Chapter 13 Auxiliary Views DUE 9/13 8:45am
	9/12	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 on graph paper

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

AUXILIARY VIEW DRAWINGS:

#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)

CANVAS QUIZ 5 - TGC Chapter 13

DUE 9/21 8:45am

CANVAS DISCUSSION 4 - FOLLOW UP

TGC Chapter 13 Auxiliary Views

DUE 9/21 8:45am

9/14 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 on graph paper

6 9/18 TEMPLATES SESSION 4 - Title Strip Border, 3rd Angle Projection,
and Metric Symbols

9/19 Ascent Chapter 29 - Annotation Styles
TEMPLATES SESSION 5 - Styles

9/20 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 on graph paper

CANVAS DISCUSSION 5 -

TGC Read Chapter 17.1-17.4

Dimensioning Practices

DUE 9/27 8:45am

	9/21	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 on graph paper
7	9/25	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 on graph paper
	9/26	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
Notes: Reminder that Metric Template Tolerances in Title Strip are different than Imperial.			
	9/27	Review Chapter 17.1 - 17.4 Dimensioning Practices	#46 - Handout TGC p549 Problem 10.4 Two-View drawings of several objects 13-23 odd
CANVAS QUIZ 6 - TGC Chapter 17.1 - 17.4 DUE 10/4 8:45am			
CANVAS DISCUSSION 5 - FOLLOW UP TGC Chapter 17.1-17.4 Dimensioning Practices DUE 10/4 8:45am			
	9/28	Ascent Chapter 28 - Advanced Layouts	#48 - Handout TGC p550 Problem 10.4 Two-View drawings of several objects 25-36 odd
8	10/2	Ascent Chapter 19 - Adding Dimensions Demo 8-100 (Video)	#47 - OCTOBER MEETING 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)

CANVAS DISCUSSION 6 -
TGC Read Chapter 16 Section Views
DUE 10/4 8:45am

10/3	Lab Day	#53 - Handout TGC p551 Problem 10.5 Three incomplete views of multiview drawing of an object 1-11 odd
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10/4	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
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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 10/11 8:45am

CANVAS DISCUSSION 6 - FOLLOW UP
TGC Chapter 16 Section Views
DUE 10/11 8:45am

10/5	Ascent Chapter 21 - Working Effectively with AutoCAD	
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9	10/9	Ascent Chapter 22 - Accurate Positioning
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10/10	Ascent Chapter 24 - Parametric Drawing	
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10/11	Ascent Chapter 25 - Working With Blocks	#60 - AutoCAD 9-51 Caster WD with 3D AutoCAD - ANSI B Scale 1:2
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10/12	Ascent Chapter 31 - External References	#61 - AutoCAD 8-72 Template as XREF Working Drawing Imperial - ANSI B Scale 1:1 Visual Checkoff
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CANVAS QUIZ 9 - ASCENT AutoCAD Fundamentals
DUE 10/31 8:45am

CANVAS DISCUSSION 7 -
TGC Read Chapter 17.5-17.9 Tolerancing Practices
DUE 10/19 8:45am

10	10/16	Lab Day	#62 - AutoCAD 8-72 Template as XREF Working Drawing Revision 1 Imperial - ANSI D Scale 2:1 (see instructor) Visual Checkoff
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	10/17	Lab Day	
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	10/18	Autodesk Certificate DOC Folder / Certificates / Username + Password	#63 - AutoCAD 9-51 Caster Working Drawing with 3D Imperial - ANSI D Scale 1:1 Visual Checkoff
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	10/19	Review Chapter 17.5-17.9 Tolerancing Practices	CANVAS Quiz 8 - TGC Chapter 17.5-17.9 DUE 10/26 8:45am
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			CANVAS DISCUSSION 7 - FOLLOW UP TGC Chapter 17.5-17.9 Tolerancing Practices DUE 10/26 8:45am
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11	10/23	AutoCAD 3D Modeling Tools Solids vs. Surfaces, Visual Styles, 3D Space	
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	10/24	AutoCAD 3D Modeling Tools Revolve, Extrude, Subtract, and Union	
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	10/25	AutoCAD 3D Modeling Tools Revolve, Extrude, Subtract, and Union (Continued) Face Extrude, Push Pull	
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	10/26	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	10/30	Demo Reverse Engineering	#66 - AutoCAD Reverse Engineering: 9-37 Slide Bracket - Imperial Printed part is actual size Working Drawing with 3D
	10/31	Lab Day	#65 - NOVEMBER MEETING
	11/1	Inventor Overview, Project Setup, Parts	#67 - Inventor 9-51 Caster Working Drawing #68 - Inventor 14-90 Caster Working Drawing
	11/2	Inventor Parts (Continued)	
13	11/6	Inventor Parts (Continued) Sheet Metal Video will be available online	#69 - 23-54 Motor Support Inventor Sheet Metal (Online Video)
	11/7	Inventor Assemblies	
	11/8	Inventor Assemblies (Continued)	
	11/9	Inventor Presentations	
14	11/13	Inventor Drawings	
	11/14	Inventor Drawings (Continued)	
	11/15	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)
	11/16	Lab Day	

15	11/20	Inventor Templates (Watch online video lecture)	
	11/21	Inventor Templates Continued (Watch online video lecture)	
	11/22	HOLIDAY - THANKSGIVING RECESS	
	11/23	HOLIDAY - THANKSGIVING RECESS	
16	11/27	Inventor Drawing Resource Transfer Wizard 14-83 Sub-Assemblies and Bill of Materials (BOM) (Watch online video lecture)	
	11/28	Lab Day	
	11/29	Inventor Review	
	11/30	Lab Day	CANVAS QUIZ 10 - Inventor DUE 12/7 8:45am
17	12/4	Lab Day	
	12/5	Lab Day	
	12/6	Lab Day	
	12/7	Review for Final	
18	12/11	7:30 - 9:30am	

* 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 5/25/2023 GS v1.0