DIGITAL DESIGN GRAPHICS TECHNOLOGY - DDGT 120 FALL 2021
Lecture and Assignment Schedule
www.ddgt.net   **707-256-7526**

WEEK	DAY	LECTURE	ASSIGNMENT
1	8/16	- 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 - Software Installations: AutoCAD and Inventor	#1 - Signed Syllabus ~~#2 - Signed Kitchen Safety~~ Bring in a 3" Binder (or two 1.5" binders) **TGC Read 5.1-5.6, 5.8-5.10 Design Visualization DUE 8/17**
	8/17	Review of Chapter 5.1-5.6, 5.8-5.10 Design Visualization Windows File Management Passwords File Dropbox Submission Setup	#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 **TGC Read Chapter 6 Technical Drawing Tools DUE 8/18**
	8/18	Review Chapter 6 Technical Drawing Tools Scales - Metric	#7 - 6.5 Reading Metric Scales (p225) **Ascent Chapter 1 - Getting Started with AutoCAD DUE 8/19**

	8/19	Review Chapter 6 Technical Drawing Tools Continued Scales - Architect	#8 - Reading Engineer's Scale (p226) **TGC Read Chapter 7.1-7.9, 7.11-7.12 Sketching and Text** **READING PARTICIPATION ASSIGNMENT ONLINE DUE 8/24** **Ascent Chapter 2 - Basic Drawing & Editing Commands** **Ascent Chapter 4 - Drawing Precision in AutoCAD DUE 8/23** **Quiz Chapter 5 and 6 on CANVAS**
2	8/23	Scales - Engineer Scales - Architect vs Engineer Ascent Chapter 1 - Getting Started with AutoCAD	#9 - Reading Architect's Scale (p227) #10 - Architect Fractional Inch vs Engineer Decimal Inch Comparison #11 - ASCENT - Practice 2A **Ascent Chapter 5 - Making Changes in Your Drawing** **DUE 8/24** **Quiz Chapter 5 and 6 on CANVAS**
	8/24	Review Chapter 7 and Linetypes Handout: 1-23 Scales	#12 - Handout 1-23 Scales #13 - ASCENT - Practice 5B **Quiz Chapter 7 on CANVAS**
	8/25	Ascent Chapter 1 - Getting Started with AutoCAD Continued Ascent Chapter 2 - Basic Drawing & Editing Commands	

	8/26	Ascent Chapter 2 - Basic Drawing & Editing Commands Continued
		Ascent Chapter 4 - Drawing Precision in AutoCAD
			TGC Read Chapter 8.1-8.5,8.10-8.11, 8-12.1
			   Engineering Geometry and Construction
			   READING PARTICIPATION ASSIGNMENT ONLINE DUE 9/1

3	8/30	Ascent Chapter 5 - Making Changes in Your Drawing
		   + Offset and Align
			Ascent Chapter 7 - Organizing Your Drawing with Layers
			   DUE 8/31

8/31	Ascent Chapter 7 - Organizing Your Drawing with Layers TEMPLATES SESSION 1A - Introduction / Layers IMPERIAL	
9/1	Review Chapter 8 Geometry and Construction TEMPLATES SESSION 1B - Introduction / Layers METRIC	*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) **Quiz Chapter 8 on CANVAS** #28 - SEPTEMBER MEETING **Ascent Chapter 8 - Advanced Object Types DUE 9/2**
9/2	Ascent Chapter 8 - Advanced Object Types Demo 4-37	**TGC Read Chapter 10 Multiview Drawings** **READING PARTICIPATION ASSIGNMENT ONLINE DUE 9/7**
4	9/6	HOLIDAY - LABOR DAY	

	9/7	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*
			Ascent Chapter 9 - Getting Information from your Drawing DUE 9/8
			Quiz Chapter 10 on CANVAS
	9/8	Ascent Chapter 9 - Getting Information from your Drawing	#33 - Handout 5.55 Surface Match p171
			#34 - TGC p293 Problem 7.2 Multiview sketching problems 1-11 odd on graph paper
			Ascent Chapter 11 - Advanced Editing Commands DUE 9/9
	9/9	Ascent Chapter 11 - Advanced Editing Commands	**TGC Read Chapter 13 Auxiliary Views READING PARTICIPATION ASSIGNMENT ONLINE DUE 9/13**
			Ascent Chapter 12 - Blocks DUE 9/13
5	9/13	Ascent Chapter 12 - Blocks TEMPLATES SESSION 2 - Blocks 3rd Angle Projection and Metric Symbols Titleblocks	#35 - ASCENT - Practice 12A
			#36 - TGC p294 Problem 7.2 Multiview sketching problems 13-23 odd on graph paper
			Ascent Chapter 27 - Creating Templates DUE 9/14

Note - for ASCENT Practice 12A: Landscaping.dwg location:
C:\Program Files\Autodesk\AutoCAD 2022\Sample\en-us\DesignCenter\Landscaping.dwg

Date	Topic	Assignment
9/14	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) **Quiz Chapter 13 on CANVAS** **Ascent Chapter 14 - Setting Up a Layout DUE 9/15** **Ascent Chapter 15 - Printing Your Drawing DUE 9/15**
9/15	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
9/16	TEMPLATES SESSION 4 - Title Strip Border, 3rd Angle Projection, and Metric Symbols	**Ascent Chapter 29 - Annotation Styles DUE 9/20**
6 9/20	Ascent Chapter 29 - Annotation Styles TEMPLATES SESSION 5 - Styles	**Ascent Chapter 17 - Text DUE 9/21**
9/21	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
9/22	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

9/23	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
		
		TGC Read Chapter 17.1-17.4
		   Dimensioning Practices
		   READING PARTICIPATION ASSIGNMENT ONLINE DUE 9/27

7	9/27	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.

	9/28	Review Chapter 17.1 - 17.4 Dimensioning Practices	#46 - Handout TGC p549 Problem 10.4 Two-View drawings of several objects 13-23 odd **Ascent Chapter 28 - Advanced Layouts DUE 10/4** **Quiz Chapter 17.1 - 17.4 on CANVAS**
	9/29	LAB DAY	
	9/30	LAB DAY	
8	10/4	Ascent Chapter 28 - Advanced Layouts	#48 - Handout TGC p550 Problem 10.4 Two-View drawings of several objects 25-36 odd #49 - ASCENT - Practice 28A #50 - ASCENT - Practice 28B **Ascent Chapter 19 - Adding Dimensions DUE 10/4** **TGC Read Chapter 16 Section Views** **READING PARTICIPATION ASSIGNMENT ONLINE DUE 10/6**
	10/5	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) #53 - Handout TGC p551 Problem 10.5 Three incomplete views of multiview drawing of an object 1-11 odd **Ascent Chapter 18 - Hatching DUE 10/6**

	10/6	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 ***SECTIONING DRAWINGS:*** #55 - ASCENT - Practice 18B #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 **Ascent Chapter 21 - Working Effectively with AutoCAD DUE 10/7** **Quiz Chapter 16 on CANVAS**
	10/7	Ascent Chapter 21 - Working Effectively with AutoCAD	**Ascent Chapter 22 - Accurate Positioning DUE 10/11**
9	10/11	Ascent Chapter 22 - Accurate Positioning	**Ascent Chapter 24 - Parametric Drawing DUE 10/12**
	10/12	Ascent Chapter 24 - Parametric Drawing	#58 - ASCENT - Practice 24A **Ascent Chapter 25 - Working With Blocks DUE 10/13**
	10/13	Ascent Chapter 25 - Working With Blocks	#59 - ASCENT - Practice 25A #60 - AutoCAD 9-51 Caster WD with 3D AutoCAD - ANSI B Scale 1:2 **Ascent Chapter 31 - External References DUE 10/14**
	10/14	Ascent Chapter 31 - External References	#61 - AutoCAD 8-72 Template as XREF Working Drawing Imperial - ANSI B Scale 1:1 Visual Checkoff **Quiz ASCENT AutoCAD Fundamentals DUE 10/20**
10	10/18	Lab Day	#62 - AutoCAD 8-72 Template as XREF Working Drawing Revision 1 Imperial - ANSI D Scale 2:1 (see instructor) Visual Checkoff

	10/19	Lab Day	TGC Read Chapter 17.5-17.9 Tolerancing Practices **READING PARTICIPATION ASSIGNMENT ONLINE DUE 10/21**
	10/20	Autodesk Certificate DOC Folder / Certificates / Username + Password	#63 - AutoCAD 9-51 Caster Working Drawing with 3D Imperial - ANSI D Scale 1:1 Visual Checkoff
	10/21	Review Chapter 17.5-17.9 Tolerancing Practices	**Quiz Chapter 17.5-17.9 on CANVAS**
11	10/25	AutoCAD 3D Modeling Tools Solids vs. Surfaces, Visual Styles, 3D Space	
	10/26	AutoCAD 3D Modeling Tools Revolve, Extrude, Subtract, and Union	
	10/27	AutoCAD 3D Modeling Tools Revolve, Extrude, Subtract, and Union (Continued) Face Extrude, Push Pull	
	10/28	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	11/1	Demo Reverse Engineering	#65 - NOVEMBER MEETING
			#66 - AutoCAD Reverse Engineering:
			    9-37 Slide Bracket - Imperial
			    Printed part is actual size
			    Working Drawing with 3D

	11/2	Lab Day	
	11/3	Inventor Overview, Project Setup, Parts	#67 - Inventor 9-51 Caster Working Drawing #68 - Inventor 14-90 Caster Working Drawing
	11/4	Inventor Parts (Continued)	
13	11/8	Inventor Parts (Continued) Sheet Metal Video will be available online	#69 - 23-54 Motor Support Inventor Sheet Metal (Online Video)
	11/9	Inventor Assemblies	
	11/10	Inventor Assemblies (Continued)	
	11/11	Inventor Presentations	
14	11/15	Inventor Drawings	
	11/16	Inventor Drawings (Continued)	
	11/17	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)

	11/18	Lab Day	
15	11/22	Inventor Templates	
		(Watch online video lecture)	
	11/23	Inventor Templates Continued	
		(Watch online video lecture)	
	11/24	HOLIDAY - THANKSGIVING RECESS	
	11/25	HOLIDAY - THANKSGIVING RECESS	
16	11/29	Inventor Drawing Resource Transfer Wizard	
		14-83 Sub-Assemblies and Bill of Materials (BOM)	
		(Watch online video lecture)	
	11/30	Lab Day	
	12/1	Inventor Review	
	12/2	Lab Day	**Quiz - Inventor on CANVAS**
17	12/6	Lab Day	
	12/7	Lab Day	
	12/8	Lab Day	
	12/9	Review for Final	
18	12/13	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 9/1/2021 GJS v2.0*