



DIGITAL DESIGN GRAPHICS TECHNOLOGY - DDGT 130 SPRING 2023

www.ddgt.net

707-256-7526

WEEK	DAY	TECHNICAL GRAPHICS COMMUNICATION COURSEWARE	ASCENT COURSEWARE	ASSIGNMENTS
1	1/18	- Introduction to Hy-Flex - Syllabus and Course overview - Kitchen Safety - Local Skills Certificate of Achievement Mechanical Drafting and Design - Computer Login - Setup of Mapped Network Drives - Fusion 360 Setup - Fusion Exercises - Share Project with Instructor / DDGT Technician		
2	1/23		ASCENT Ch1 Introduction to Autodesk Fusion 360	Lab Together: Practice 1A
			ASCENT Ch2 Creating the First Feature with Quick Shapes	Lab Together: Practice 2A Lab Together: Practice 2B
	1/25	3D Project Assignment Description	ASCENT Ch3 Creating Sketched Geometry	Assigned: Practice 3A Assigned: Practice 3B Assigned: Practice 3C (Create all four shapes in one file) DISCUSSION - FINAL PROJECT 1 DISCUSSION - FINAL PROJECT 2 DISCUSSION - FINAL PROJECT 3

3	1/30		ASCENT Ch4 Additional Sketching Tools	Assigned: Practice 4A Assigned: Practice 4B Assigned: Practice 4C Assigned: Practice 4D Assigned: Practice 4E Assigned: Practice 4F
	2/1	Unit 1A From CAD to CAM Unit 1B Case Study (Assignment Overview)	ASCENT Ch5 Sketched Secondary Features	February Monthly Meeting DUE 2/28 Assigned: Practice 5A Assigned: Practice 5B Assigned: Practice 5C
QUIZ UNIT 1 (CANVAS) DUE 2/8				
4	2/6		ASCENT Ch6 Pick and Place Features	Assigned: Practice 6A Assigned: Practice 6B Assigned: Practice 6C Assigned: Practice 6D
	2/8	Review of 3D Printing Class Presentation Research Assignment Demonstrate Dimension SST 768 printing software and GrabCad printing software	ASCENT Ch7 Construction Features	Assigned: Practice 7A Assigned: Practice 7B
5	2/13	Unit 2 - Intro to 3D Printing	ASCENT Ch8 Equations and Parameters	Assigned: Practice 8A Assigned: Practice 8B QUIZ UNIT 2 (CANVAS) DUE 2/22
	2/15		ASCENT Ch9 Additional Features and Operations	Assigned: Practice 9A Assigned: Practice 9B
6	2/20	HOLIDAY - PRESIDENT'S DAY		
	2/22	Unit 3 - 3D Printing Technologies		QUIZ UNIT 3 (CANVAS) DUE 3/1

7	2/27	Flammable, Acetone... XTC3 Epoxy and Paint	ASCENT Ch10 Design and Display Manipulation	Assigned: Practice 10A Assigned: Practice 10B Assigned: Practice 10C DISCUSSION - FINAL PROJECT 1 UPDATE DISCUSSION - FINAL PROJECT 2 UPDATE DISCUSSION - FINAL PROJECT 3 UPDATE
	3/1	Unit 4A - What is a Mesh Unit 4B - Making by Sharing	ASCENT Ch11 Single Path Sweeps	March Monthly Meeting DUE 3/31 Assigned: Practice 11A Assigned: Practice 11B QUIZ UNIT 4 (CANVAS) DUE 3/8
8	3/6		ASCENT Ch12 Loft Features	Assigned: Practice 12A Assigned: Practice 12B Assigned: Practice 12C
	3/8	Unit 5A - Gear Systems Unit 5B - Case Study	ASCENT Ch13 Feature Duplication Tools	Assigned: Practice 13A Assigned: Practice 13B (For Practice 13B, only do the rectangular and circular patterns. Do not do the Pattern on Path - it will not work.) QUIZ UNIT 5 (CANVAS) DUE 3/15
9	3/13	LAB DAY		
	3/15	Unit 6 - Nesting	ASCENT Ch14 Distributed Design	Assigned: Practice 14A QUIZ UNIT 6 (CANVAS) DUE 3/22
10	3/20		ASCENT Ch15 Component Design Tools	Assigned: Practice 15A
	3/22	Unit 7 - Future of Fabrication	ASCENT Ch16 Multi-Body Design	Assigned: Practice 16A (Skip Task 8 - Nuts, Washers, Thread) Assigned: Practice 16B QUIZ UNIT 7 (CANVAS) DUE 3/29
11	3/27		ASCENT Ch17 Sculpting Geometry	Assigned: Practice 17A (Skip Task 5 - Plane, Quadball) Assigned: Practice 17B QUIZ UNIT 8 (CANVAS) DUE 4/12
	3/29	Unit 8 - 4D Printing		

Student 20 Classroom Presentation

[DISCUSSION - FINAL PROJECT 1 UPDATE](#)
[DISCUSSION - FINAL PROJECT 2 UPDATE](#)
[DISCUSSION - FINAL PROJECT 3 UPDATE](#)
[DISCUSSION - STUDENT PRESENTATION](#)

12	4/3	SPRING BREAK 4/3 - 4/7		
	4/5	SPRING BREAK 4/3 - 4/7		
13	4/10	Student 19 Classroom Presentation	ASCENT Ch18 Editing Sculpted Geometry	April Monthly Meeting DUE 4/30 Assigned: Practice 18A Assigned: Practice 18B Assigned: Practice 18C Assigned: Practice 18D DISCUSSION - STUDENT PRESENTATION
	4/12	Student 18 Classroom Presentation	ASCENT Ch19 Drawing Basics	Assigned: Practice 19A Assigned: Practice 19B Assigned: Practice 19C DISCUSSION - STUDENT PRESENTATION
14	4/17	Unit 9 - Parametric Design Student 17 Classroom Presentation	ASCENT Ch20 Detailing Drawings	Assigned: Practice 20A Assigned: Practice 20B DISCUSSION - STUDENT PRESENTATION QUIZ UNIT 9 (CANVAS) DUE 4/24
	4/19	Student 16 Classroom Presentation	ASCENT Appendix A: Outputting for 3D Printing Bonus Lecture - Rendering	DISCUSSION - STUDENT PRESENTATION
15	4/24	Student 15 Classroom Presentation Student 14 Classroom Presentation Student 13 Classroom Presentation LAB DAY		DISCUSSION - STUDENT PRESENTATION
	4/26	Student 12 Classroom Presentation Student 11 Classroom Presentation Student 10 Classroom Presentation LAB DAY		DISCUSSION - STUDENT PRESENTATION DISCUSSION - FINAL PROJECT 1 UPDATE DISCUSSION - FINAL PROJECT 2 UPDATE DISCUSSION - FINAL PROJECT 3 UPDATE

16	5/1	Student 9 Classroom Presentation Student 8 Classroom Presentation Student 7 Classroom Presentation LAB DAY	DISCUSSION - STUDENT PRESENTATION
	5/3	Student 6 Classroom Presentation Student 5 Classroom Presentation Student 4 Classroom Presentation LAB DAY	DISCUSSION - STUDENT PRESENTATION
17	5/8	Student 3 Classroom Presentation Student 2 Classroom Presentation Student 1 Classroom Presentation LAB DAY	DISCUSSION - STUDENT PRESENTATION
	5/10		QUIZ ASCENT
18	5/15	Autodesk Certificate of Completion	Autodesk Certificate of Completion
	5/17	Review For Final	
19		Final TBA <i>Note: All assignments must be turned at the end of the scheduled final.</i>	

The instructor reserves the right to change the schedule as the instructor sees fit.

Revised 1/15/2023 GS

**** Note:** *This will be supplied as a video lecture to be accessed under "DDGT130" on the DDGT.net website.*