ME10 - GRAPHICS FOR ENGINEERING DESIGN

SUMMER 2020 (Asynchronous)

Rev. 01

L#	Date	Topics		Reading Assgmt	Hwk Assg	Hwk Due
1	**05/19***T*	Introduction, Representation of Geometry A		SW, I.1	HS1	
2	05/20	Representation of Geometry B				
3	05/21	3D Modeling A		I.3, I.4	H1	
4	05/22	3D Modeling B (WS#1)				
5	**05/26***T*	Shop terms, Multiview Representation A	**mQ#1**	SW, N1 I.5	HS2	**HS1**
6	05/27	Multiview Representation B (WS#2)				
7	05/28	Orthographic Projection		I.5, I.2	H2,H3	**H1**
8	05/29	Free-hand Sketching (WS#3)				
9	**06/01***M*	Pictorial Representations A	**mQ#2**	SW, I.7	HS3	**HS2**
10	06/02	Pictorial Representations B (WS#4)				
11	06/03	Section Views A		I.8	H4,H5	**H2,H3**
12	06/05	Section Views A (WS#5)				
13	**06/08***M*	Auxiliary Views A	**mQ#3**	SW, I.6	HS4	**HS3**
14	06/09	Auxiliary Views B (WS#6)				
15	06/10	Dimension and Notes A	**mQ#4**	I.9	H6	**H4,H5**
16	06/11	Dimension and Notes B (WS#7)				
17	**06/15***M*	**Test#1** (*Covers L#1 – L#10*) **No makeups.**		SW	HS5	**HS4**
18	06/16	Production Drawings (WS#8)		I.11		
19	06/17	Surface Finishing	**mQ#5**	I.9	H7	**H6**
20	06/18	Intro to Geometric Dimensioning and Tolerancing (GD&T)		I.10		
21	**06/22***M*	GD&T: Datums A	**mQ#6**	SW, I.10	HS6	**HS5**
22	06/23	GD&T: Datums B (WS#9)				
23	06/24	GD&T: Form, Orientation, Profile, Runout A		I.10	H8	**H7**
24	06/25	GD&T: Form, Orientation, Profile, Runout B (WS#10)				
25	**06/29***M*	GD&T: Location A	**mQ#7**	I.10	H9	**HS6**
26	06/30	GD&T: Location B (WS#11)				
27	07/02	Design for Sustainability	**mQ#8**		H10	**H8**
28	07/03	Design for Manufacturability, Design for Assembly				
29	**07/06***M*	**Test#2** (*Covers L#1 – L#22*) **No makeups.**				**H9**
30	07/07	Design Project				
31	07/08	Design Project				**H10**
32	07/09	Design Project Interim Report 1				
33	**07/13***M*	Design Project				
34	07/14	Design Project				
35	07/15	Design Project				
36	07/16	Design Project Interim Report 2				
37	**07/20***M*	**Test#3** (*Covers L#1 – L#26*) **No makeups.**				
38	07/21	Design Project				
39	07/22	Design Project				
40	07/23	Design Project				
41	**07/27***M*	Design Project Interim Report 3				
42	07/28	Design Project				
43	07/29	Design Project				
44	07/30	Design Project				
45	**08/03***M*	**Design Project Final Report Due**				
46	08/04	TBA				
47	08/05	TBA				
48	08/06	TBA				

I.# *Textbook*, **SW** *Solidworks Workbook*, **N**# *Notes*, **H**# *Homework*, **HS**# *Solidworks Homework,* **mQ**# miniQuiz, **WS**# Workshop, **Test**# Open-Book Test

WS# **W**orkshops carried out in conjunction with the lecture. Do not submit workshops in.

I.# Bertoline G., Wiebe E., **Fundamentals of Graphics Communication**, 6th Edition, McGraw-Hill, 2010, ISBN 978-0-07-352263-0. I.1 means Chapter 1 of this textbook.

SW Barr, Krueger, Juricic, **Engineering & Computer Graphics Workbook Using SOLIDWORKS 2019**, SDC Publications. ISBN 978-1-63057-219-8.

Accommodations for Students with Disabilities: If you have a disability for which you are or may be requesting accommodations, please contact both your instructor and the Office of Academic Support Services, University Center C212 (610-758-4152) as early as possible in the semester. You must have documentation from the Academic Support Services office before accommodations can be granted.

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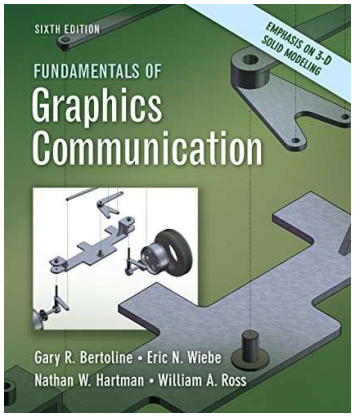
Grader: Mr. Onur Denizhan

Lecture: Online - Asynchronous
CAD Software **SolidWorks**

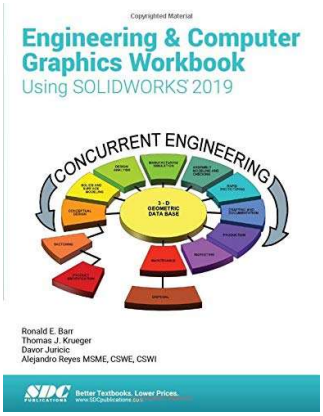
Tentative Grading Scale: **H**# = 15%; **HS**# = 10%; **mQ**# = 10%; **T**# = 45%; **DP** = 20%

TEXTBOOKS:

Fundamentals of Graphics Communication, 6th Edition, McGraw-Hill, 2010, ISBN 978-0-07-352263-0



(Used from Amazon: $20+)



(New 2019 Ed. from LU Bookstore: $44-$48)
(Used 2016 Ed. from Amazon: $8+)