

# ME10 - GRAPHICS FOR ENGINEERING DESIGN

Spring 2020 (T,Th – 7:55a-9:10a)

Rev. 00

L#	Date	Topics	Reading Assgmt	Hwk Assgmt	Hwk Due
1	01/21	Representation of Geometry	SW, I.3	HS1	
2	01/23	3D Modeling (WS#1)	I.4	H1	
3	01/28	Shop terms	mQ#1 SW	HS2	HS1
4	01/30	Multiview Representation (WS#2)	I.5, N1	H2	H1
5	02/04	Orthographic Projection, Free-hand Sketching (WS#3)	mQ#2 SW	HS3	HS2
6	02/06	Pictorial Representations (WS#4)	I.2, I.5, I.7	H3	H2
7	02/11	Section Views (WS#5)	mQ#3 SW, I.8	HS4	HS3
8	02/13	Auxiliary Views (WS#6)	I.6	H4	H3
9	02/18	Dimension and Notes (WS#7)	mQ#4 SW	HS5	HS4
10	02/20	<b>In-class Test#1</b> (Covers L#1 – L#6) <b>No makeups.</b>		H5	H4
11	02/25	Production Drawings (WS#8)	mQ#5 SW	HS6	HS5
12	02/27	Surface Finishing, GD&T Introduction	I.9	H6	H5
13	03/03	Geometric Dimensioning and Tolerancing, Datums (WS#9)	mQ#6 I.11, I.9	HS7	HS6
14	03/05	Tolerances of Form, Orientation, Profile, Runout (WS#10)	I.10	H7, H8	H6
<b>03/09 – 03/13 SPRING BREAK</b>					
15	03/17	Tolerances of Location (WS#11)	I.10	HS8	HS7
16	03/19	Screw Threads, Fasteners, Welding Drawings	mQ#7 I.10	H9	H7, H8
17	03/24	<b>In-class Test#2</b> (Covers L#1 – L#13) <b>No makeups.</b>		HS9	HS8
18	03/26	Cylindrical Fits A (WS#12)	I.11	H10	H9
19	03/31	Cylindrical Fits B	mQ#8 I.9	HS10	HS9
20	04/02	Homeworks, Project / CSWA Exam			H10
21	04/07	Project / CSWA Exam			HS10
22	04/09	Project / CSWA Exam			
23	04/14	Project / CSWA Exam			
24	04/16	Project / CSWA Exam			
25	04/21	<b>In-class Test#3</b> (Covers L#1 – L#19) <b>Mark this on your calendar! No makeups.</b>			
26	04/23	Project / CSWA Exam			
27	04/28	<b>Final Report Due (12:10pm); CSWA Certificate Due (12:10pm)</b>			
28	04/30	TBA			

L# Textbook, SW Solidworks Workbook, N# Notes, H# Homework, HS# Solidworks Homework, mQ# miniQuiz, WS# Workshop, Test# in-class Test

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

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

**CSWA** Planchard, D., **Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSWA\_SD, CSWSA-FEA SOLIDWORKS 2017 - 2019**, SDC Publications. ISBN 978-1-63057-232-7.

**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.

**Instructor:** Dr. M. Chew PL#256B ☎ (84215) ✉ ([mc0p@lehigh.edu](mailto:mc0p@lehigh.edu))

**Lab Assistants:** Mr. Onur Denizhan

**Lecture:** 118 Chandler-Ullmann Hall

**CAD Lab** 458 Packard

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