ABEN 255. Computer-Aided Analysis and Design. T & Th, 9:30 - 10:45 a.m., QBB 114.						Tentative Schedule	tor Fall Se	emester, 2019	
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Date*	Day	Day	Week	Software	Topics and Reading	Suggested Problems (plus assigned, hand-	Tests	Homework	
		#	#	& Text		worked, and/or design problems)		Given/Due	
08/27	T	1	1		Introduction; File Management, 1-5; Writing Memos and Letters, 6-11;	p. 10, #2; pp. 58-65, #1-6.			
08/29	Th	2			Templates, 12-25; Spreadsheet Basics, 26-67				
09/03	T	3	2	Excel	Dimensions and Units, 68-85; Sequential Calculations and Back	Beam deflection, pipe flow, etc.; p. 82, #1-			
09/05	Th	4			Solving, 86-103; Budgets, Schedules, and Data Validation, 104-123	5; pp. 99-101, #1-3, 8; pp. 122-123, #1-7.			
09/10	T	5	3		Graphing and Two-Way Tables, 124-177;	pp. 163-175, #1-7; pp. 435-442, # 4-6, 8-9.			
09/12	Th	6		Excel	Database Concepts, 385-443				
09/17	T	7	4	Excel	Database Concepts (cont'd); Descriptive Statistics, 178-214	pp. 205-211, #1-10; statistics; histogram or	Quiz #1		
09/19	Th	8		Excel		other graph(s).			
09/24	T	9	5	Excel	Linear Regression, 215-262	pp. 253-260; #1-4, 6-10; linear regression:			
09/26	Th	10		Excel		calibration problem(s).			
10/01	T	11	6	Excel	Curve Fitting, 263-314	pp. 307-312, #1-5; curve fitting problem(s).			
10/03	Th	12		Excel			Quiz #2		
10/08	Т	13	7	Excel	Systems of Linear Equations, 315-334; Optimization, 335-368;	pp. 330-331, #1-7; p. 362-365, #1-5;			
10/10	Th	14			Root Finding, 369-384; Macros, 444-463	p. 381, #1-12; p. 460, #1-2.			
10/15	Т	15	8		Unscheduled: Catch-Up and/or Review Session as Needed	* * * * * * * * * * * * * * * * * * * *			
10/17	Th	16			Exam #1 (May be on Blackboard; Use of Excel Not Allowed)		Exam #1		
10/22	T	17	9		Introduction to AutoCAD	Various drawings; no dimensions.			
10/24	Th	18		4	Drawing objects	8.,			
10/29	T	19	10		Output, plotting, scaling, etc.	Various drawings; no dimensions.			
10/31	Th	20		<u> </u>	Modifying objects				
11/05	T	21	11		Layers and text	Various drawings; floor plan or facilities			
11/07	Th	22		Å	Dimensioning	mgmt. project; no dimensions.	Quiz #3		
11/12	T	23	12		Unscheduled: Catch-up, additional topics, etc.	Various drawings; floor plan or facilities	Quil no		
11/14	Th	24			Paper space	mgmt. project; w/dimensions.			
11/19	T	25	13		Paper space, annotative objects	Various drawings; floor plan or facilities			
11/21	Th	26	13		Inserting contentblocks, Xrefs	mgmt. project; w/dimensions & layouts.			
11/26	T	27	14	AutoCAD			Quiz #4		
11/28	Th		- '	 	Thanksgiving Holiday		X 0.22 11 T		
12/03	T	28	15		Unscheduled: Catch-Up and/or Review Session as Needed				
12/05	Th	29	1.5		Exam #2 (Computer-Based Test)		Exam #2		
12/10	T	30	16		Additional Topics as Time Permits	Team rating.	Dead		
12/10	Th	31	10		Student Rating of Instruction; Catch-Up Session, Course Review	1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Week		
12/12	Th	32	17		Comprehensive Final Exam, 3:30 p.m 5:30 p.m.§	<u>:</u>	Final		
					ect to change depending on the progress of the course. Students are response	: nsible for changes as announced in class nos			
					cet to change depending on the progress of the course. Students are respon	nsione for changes as announced in class, pos	ica on		
Blackboard, or distributed via e-mail. † Steele, D.D. 2019. Engineering Problems Solving with Excel . Fargo: N. Dak. St. Univ. Schedule Last Updated:								8/23/20	
					utoCAD Basics, etc.	2 Should Base	- r	0,23,20	
Final exam schedule: https://www.ndsu.edu/registrar/dates/finals/#c306449 Wed., 09/25/2019, 10 a.m 3 p.m., Engineering & Tech Expo								o., Fargodom	
NDSU Fall 2019 Calendar: https://ww					ndsu.edu/registrar/dates/2020/#c570510		https://career.ndsu.edu/channels/engineering-tech-expo/		