

**ABEN 255. Computer-Aided Analysis and Design.** **Tentative Schedule for Fall Semester, 2009.**

**T & Th, 9:30 - 10:45 a.m., IACC 114.**

Date*	Day	Day #	Week #	Software & Text	Topics and Reading	Homework Due Dates	Tests
08/25	T	1	1	General	Introduction; File Management, 1-4; Writing Memos and Letters, 5-10; Spreadsheet Basics, 11-53		
08/27	Th	2		Excel†			
09/01	T	3	2	Excel	Dimensions and Units, 54-71; Sequential Calculations and Back Solving, 72-87; Budgets, Schedules, and Data Validation, 89-108		
09/03	Th	4		Excel			
09/08	T	5	3	Excel	Graphing and Two-Way Tables, 109-154; Descriptive Statistics, 155-191		
09/10	Th	6		Excel			
09/15	T	7	4	Excel	Linear Regression, 192-241		Quiz #1
09/17	Th	8		Excel			
09/22	T	9	5	Excel	Curve Fitting, 242-291; Systems of Linear Equations, 292-312		
09/24	Th	10		Excel			
09/29	T	11	6	Excel	Optimization, 313-341; Root Finding, 342-359		
10/01	Th	12		Excel			
10/06	T	13	7	Excel	Database Concepts, 360-404		
10/08	Th	14		Excel			
10/13	T	15	8	Excel	Unscheduled; Catch-Up and/or Review Session as Needed		
10/15	Th	16		Excel	Exam #1 (Paper-Based Test)		Exam #1
10/20	T	17	9	AutoCAD‡	Ch. 1. Introduction to AutoCAD 2010		
10/22	Th	18		AutoCAD			
10/27	T	19	10	AutoCAD	Ch. 3. How to Set Up Your Drawing		
10/29	Th	20		AutoCAD			
11/03	T	21	11	AutoCAD	Ch. 5. Modifying Commands		
11/05	Th	22		AutoCAD			
11/10	T	23	12	AutoCAD	Ch. 7. Hatching		
11/12	Th	24		AutoCAD			
11/17	T	25	13	AutoCAD	Ch. 9. Dimensioning Your Drawing		
11/19	Th	26		AutoCAD			
11/24	T	27	14	AutoCAD	Unscheduled; Catch-Up Session, Review		Quiz #4
11/26	Th						
12/01	T	28	15	AutoCAD	Unscheduled; Catch-Up and/or Review Session as Needed		
12/03	Th	29		AutoCAD			
12/08	T	30	16		Additional Topics as Time Permits		Dead
12/10	Th	31					
12/18	Fri				Comprehensive Final Exam, 8:00 - 10:00 a.m.§		Week Final

\*Note: The topics and dates of coverage are subject to change depending on the progress of the course. Students are responsible for changes as announced in class, posted on Blackboard, or distributed via e-mail.

† Steele, D.D. 2009. *Engineering Problems Solving with Excel*. Fargo: N. Dak. St. Univ.

‡ Hamad, M.M. 2010. *AutoCAD 2010 Essentials*. Sudbury, Massachusetts: Jones and Bartlett Publishers. ISBN# 978-0-7637-7629-9.

§ The final exam schedule is available at: <http://www.ndsu.edu/fileadmin/bisonconnection.ndsu.edu/schedule/finals/200910.pdf>

The NDSU Calendar for fall 2008 is available at: <http://www.ndsu.edu/bisonconnection/dates/2010/>