

ABEN 464/664. Resource Conservation and Irrigation Engineering.
10:00 - 10:50 MWF; 2:00 - 4:50 W, ABEN Room 208.

Tentative Schedule for Spring Semester, 2007 (NDSU Schedule for Spring 2007).

Day	Date	Day #	Week #	Chapter #	Topics*	Laboratory Schedule	Homework
W	1/10	1	1	1	Introduction	Soil Containers, Plant Growth, etc.	
F	1/12	2		2	Precipitation		
M	1/15				Friday--MLK Day		
W	1/17	3	2			Review of Soil Physics; Soil Moisture Measurement	
F	1/19	4		3	Infiltration, Evaporation, and Transpiration		
M	1/22	5	3				
W	1/24	6		4	Runoff	Soil Physics Lab--Joel Bell	
F	1/26	7					
M	1/29	8	4	5	Water Erosion and Control Practices		
W	1/31	9				NDAWN Weather Station Lab-- Radu Carcoana	
F	2/2	10			Test #1		
M	2/5	11	5	6	Wind Erosion and Control Practices		
W	2/7	12				Infiltration	
F	2/9	13		7	Vegetated Waterways		
M	2/12	14	6	8	Terracing		
W	2/14	15				K&T Irrigation--Ken Storm	
F	2/16	16		9	Conservation Structures		
M	2/19	17	7				
W	2/21	18		10	Earth Embankments and Farm Ponds	Soils E-Resources--Keith Anderson, NRCS	
F	2/23	19					
M	2/26	20	8	11	Headwater Flood Control		
W	2/28	21				Engineering E Resources, e.g., links from Jerry Shae	
F	3/2	22		12	Surface Drainage and Land Forming		
M	3/5	23	9				
W	3/7	24			Review, Unscheduled, Catch-Up	Rust Sales--Perry Rust--land leveling, GPS, GIS, etc.	
F	3/9	25			Test #2		

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M	3/12				Spring Break - No Classes		
W	3/14				Spring Break - No Classes		
F	3/16				Spring Break - No Classes		
M	3/19	26	10	13	Open Channels		
W	3/21	27				Open Channel Design	
F	3/23	28		14	Subsurface Drainage Design		
M	3/26	29	11				
W	3/28	30		15	Location, Installation, and Maintenance of Subsurface Drains	Drainage Design	
F	3/30	31					
M	4/2	32	12	16	Pumps and Pumping		
W	4/4	33				(To Be Determined)	
F	4/6				Easter Recess - No Classes		
M	4/9				Easter Recess - No Classes		
W	4/11	34	13	17	Water Supply and Quality	NDSU Soil, Water, & Environment Lab--David Hopkins	
F	4/13	35			Test #3		
M	4/16	36	14	18	Irrigation Principles		
W	4/18	37				Irrigation Scheduling	
F	4/20	38		19	Surface Irrigation		
M	4/23	39	15				
W	4/25	40		20	Sprinkler Irrigation	ASABE Standards and Engineering Practices	
F	4/27	41					
M	4/30	42	16	21	Microirrigation		
W	5/2	43				Conservation Structures Tour, Lisbon Area	
F	5/4	44			Review (Last Day of Class)		
F	5/11				8:00 - 10:00 a.m. Comprehensive Final Exam (Final Exam Schedule)		

* Topics correspond with chapters in the text by Schwab et al. (1993).