

CE 326 PRINCIPLES OF ENVIRONMENTAL ENGINEERING
SPRING 2008

Wk	Date	Topic	Reading Assignment
1	Jan 14-18	Introduction, Air Pollution – fundamentals and standards	1-35, 547-562
2	Jan 21-25	Air Pollution – effects, origins, fate of pollutants, control devices	562-580, 601-633
3	Jan 28-Feb 1	Air Pollution – dispersion of pollutants	580-600
4	Feb 4-8	Solid Wastes – sources, management, processing, and disposal	736-796
5	Feb 11-15	Hazardous Wastes– sources, management, processing, and disposal/ First Exam	814-903
6	Feb 18-22	Water Supply – water chemistry and water quality	188-217
7	Feb 25-29	Water Supply – water quality standards and treatment systems	217-257
8	Mar 3-7	Water Supply – coagulation and flocculation	257-266
9	Mar 10-14	Water Supply – sedimentation and filtration	266-294
	Mar 17-21	Spring Break	
10	Mar 24-28	Water Supply – disinfection, adsorption, and membrane processes/ Second Exam	294-310
11	Mar 31-Apr 4	Wastewater – water quality and biochemical oxygen demand	354-373
12	Apr 7-11	Wastewater – dissolved oxygen sag curve, biological processes	373-400
13	Apr 14-18	Wastewater – standards, onsite, preliminary, primary, and secondary treatment, biochemical environment	420-459
14	Apr 21-25	Wastewater – trickling filter and activated sludge, biosolids mass balance	459-500
15	Apr 28-May 2	Wastewater – sludge and biosolids treatment and disposal Third Exam	311-328, 508-525

Text: Davis and Cornwell, Introduction to Environmental Engineering, 4th edition, McGraw-Hill, 2008

Grading: 3 exams @ 20% each, total: 60% Homework and labs: 40%

Course homepage: <http://home.eng.iastate.edu/~tge/ce326> - please print off lecture notes prior to class if posted

Lecture Instructor:

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Fridays 11:00 - 12:00
or by appointment

TA:

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174 Town

If you have a documented disability and anticipate needing accommodations in this course, please make arrangements to meet with me soon. Please request that a Disability Resources staff send a SAAR form verifying your disability and specifying the accommodation you will need.

Note: Be sure to put your name and section number on your homework and lab assignments.

CE 326 – LAB SCHEDULE

Week	Date	Topic	Location
1	Jan 16	Materials Balance Calculations	Lab classroom*
2	Jan 23	Field Trip – Iowa State University Power Plant	Power Plant Conference Room
3	Jan 30	Dispersion Model – Stack Height	Lab classroom*
4	Feb 6	Field Trip – Ames Resource Recovery Facility	110 Center Ave., Ames
5**	Feb 13	Chemical Concepts	112 Town
6**	Feb 20	Field Trip – Boone County Landfill (optional - since using personal transportation)	1268 224 th Lane, Boone
7	Feb 27	Jar Test	112 Town
8	Mar 5	Field Trip – Ames Water Treatment Plant	300 E. 5 th St., Ames
9	Mar 12	Design Problem – Rapid Filter	Lab classroom*
10	Mar 26	Design Problem – Rapid Filter	Lab classroom*
11	Apr 2	BOD, DO	112 Town
12	Apr 9	Field Trip – Ames Water Pollution Control Facility (optional - since using personal transportation)	56797 280 th St., Ames
13	Apr 16	Design Problem – Activated Sludge	Lab classroom*
14	Apr 23	Design Problem – Activated Sludge	Lab classroom*
15	Apr 30	Exam Review	Lab classroom*

* Lab classroom is currently assigned as 270 Town Engineering Bldg. for Section 1 (10:00 - 11:50 am) and 1322 Hoover for Section 2 (2:10 - 4:00 pm)

** note revised dates for these two labs