

Hazardous Waste Management, 16-375:530

Monday/Thursday 2nd period, 10:55 am-12:15 pm., ENRSB 223

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Usual Office Hours:

most afternoons; appointment recommended (or drop by any time - at your own risk)

Class Website: <https://sakai.rutgers.edu/>

Tentative Outline

<u>Week</u>	<u>Topics</u>
1	Introduction, Scope of Problem; Case Studies
2-3	Physical, Chemical, and Biological Principles; References; Hazard, Safety, and Acceptable Risk; Assignment #1
3	RCRA: Legislation and Overview of Regulations
4	RCRA Regulations: Definitions, Criteria, Characteristics, and Lists (CFR 260-261)
5-6	RCRA Regulations: Generators, Transporters, Manifests (CFR 262-263); Storage, Treatment, and Disposal Facilities (CFR 264-268); HSWA; Assignment #2
6	Hourly #1
7	CERCLA; SARA
8	Other Federal Legislation; NJ State Legislation and Regulations
9	Sampling; Analysis; Toxicity Testing
10	Hourly #2
10	Treatment: Introduction; Thermal
11-12	Treatment: Physical-Chemical
13	Treatment: Biological; Assignment #3
14	Disposal; Site Clean-up; Nuclear Wastes

Class requirements:

Two hourly exams (80 points total)

Final exam (80 points)

Weekly readings

Two (approx.) written assignments

Brief oral presentation

Term paper (40 points) - details in photocopy pack

Class attendance and participation are expected

Books:

40CFR Parts 260-265, July 1, 2004 – free highlighted version on course website

Photocopy Package – purchase (~\$20-25) from <http://www.upublishing.com/>

Students with a disability: please see me immediately so that we may make arrangements to support a successful learning experience.

Foreign students experiencing language problems may wish to record lectures. Sharing class notes is also encouraged; please see me if you need help in making such arrangements.