

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.