I. Environmental Regulatory Affairs

II. Laws and regulations pertinent to the management of water and wastewater, hazardous and toxic wastes, air contaminants, underground storage tanks and other timely environmental issues are studied. General legal concepts, the relationships among industries and local, state and federal agencies, environmental audits and community right-to-know requirements are among the topics included.

III. PURPOSE

In a store chewing gum beckons. It can provide instantaneous gratification, and advertising assures instantaneous attractiveness. But like all systems some cost accrues; not merely the purchase price but a societal imbalance: the purchase generates 100% waste. Cast aside are: bag, receipt and staple outer foil wrapping a paper sleeve inner foil wrapping the gum after sugar extraction

The society that fosters such waste is draped across a historic junction. At the confluence are roads leading toward business (read waste) as usual; toward amended consumption for waste reduction; toward system redesign and economic restructure for waste elimination or at least, reuse.

Which road?

To play a role requires fundamental knowledge of industrial operations as impacted by local, state and federal regulations.

Public health plus the philosophical, physiological and psychological must be considered. Treatment processes, urban planning, and standard operations of disposal systems are germane issues.

Characteristics of wastes cannot be overlooked.

Organic chemistry and biochemistry are important

Knowledge of regulations (phone number of a good attorney?) is critical to development of effective management.

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Associate Professor
But the body of knowledge is broad as the field. No one masters all. Still, an education's foundation stems from abstraction: you can reasonably solve complex technical problems though complete data are not available. No more fertile field exists than regulatory affairs.

IV. OBJECTIVES
Passing this course requires command of regulatory affairs regarding the following
  solid and hazardous wastes
  risk management
  transportation of hazardous and dangerous materials
  water supply and waste treatment
  air contaminants
  auditing
  other interesting facets
Passing this course requires the ability to solve complex technical and regulatory problems even though data are incomplete and regulators' decisions are likely arbitrary.

V. CONTENT (not necessarily in sequential order)
1. Industrial Ecology (NEPA)
2. Risk Management
3. Solid Waste: sources/Properties (SWDA)
4. Transportation
5. Solid Waste Remediation (RCRA, CERCLA & SARA)
6. Water Issues (CWA)
7. Air Issues (CAA)
8. Health Issues (TSCA)
9. Community Issues (EPCRA)
10. Avoiding Tragedy (Oil Pollution Act)
11. Politics
12. Other Stuff

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VI WHAT TO DO: Use the internet for research. Talk to your colleagues on the web. Read the book and the presentations. Try to think about your research and submissions before and after they’re written.

VII HOW TO PLAY
There will be background data to review. However, the data are neither complete nor inclusive. Each student is required to review the available documentation, study pertinent text sections, conduct independent research……..on a weekly basis. Assignments must be completed and submitted by the required date. In this field no one is ubiquitously knowledgeable. Everyone will benefit from the broadest philosophical discussions.

Graduate student bonus: Grad students are prescribed to participate extra-ordinarily as per company policy. Additional assignments and/or presentations; more rigorous intellectual acuity are required.

VIII Other Stuff: The course web site will be used to provide additional insight.

IX Resources include text, the Waterfield Library, internet and equipment manufacturers.

X. Grading Methodology {You earn the grade you deserve}
   Participation
   Assignments
   Exams (midterm and final): These may or may not be necessary.
   Each assignment will be graded 0-10 as per company policy.

XI Active and regular participation is required.

XII ACADEMIC HONESTY
Cheating, plagiarism (submitting another person's material as one's own), or doing work for another person which will receive academic credit are impermissible. This includes the use of unauthorized books, notebooks or other sources in order to secure or give help during an examination; the unauthorized copying of examinations, assignments, reports or term papers; or the presentation of unacknowledged material as if it were the student's own work. Disciplinary action may be taken beyond the academic discipline administered by the faculty member who teaches the course in which the cheating took place.


XIV PREREQUISITES: CET 342, CET 353 or instructor’s consent

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XV. Syllabus Statement of Equal Opportunity:

Murray State University endorses the intent of all federal and state laws created to prohibit discrimination. Murray State University does not discriminate on the basis of race, color, national origin, gender, sexual orientation, religion, age, veteran status, or disability in employment, admissions, or other provision of services and provides, upon request, reasonable accommodation including auxiliary aids and services necessary to afford individuals with disabilities equal access to participate in all programs and activities.

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