

CEE 669
Industrial Sources of Air Pollution

Catalog data:	20-CEE-673 (20-CEE-669). Industrial Sources of Air Pollution. 3 ug./gr. cr. This course deals with industrial sources of air pollution and how these pollutants are regulated and controlled. The requirements for successfully completing the course are to attend the field trips and write a pre-trip and post-trip report on specific industries. The pre-trip report is designed to instruct the class on how a plant of a certain industrial grouping operates and will be given orally before a trip is made. The post-trip report includes an oral presentation and a written report. The written report is an in-depth report dealing with a specific industry, which we will visit. The post-trip report will include but not be limited to the following information; a general description of the facility including its age, number of employees, etc.; specific information on emissions, if available; estimated emissions (EPA AP-42); applicable State and Federal regulations governing the control of these emissions; types of control technologies in use (both permitted and others); age, efficiency and any other information concerning the control equipment; the state air pollution control agency to which the plant reports; other information.
Prerequisites:	CEE senior or graduate status or permission of the instructor.
Textbook:	None required
References:	Buonicore and Davis, Air Pollution Engineering Manual, U.S. EPA Manual AP-42, available in the EPA library.
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Lecture or Lab Topics:	1. Introduction (1 class) 2. Design Principles for Air Pollution Control Systems (5 classes) 3. Laws and Regulations Controlling the Emissions of Air Pollutants (3 classes) 4. Pre-Trip Reports (3 classes) 5. Field Trips to Industrial Sites (15 classes) 6. Post-Trip Reports (3 classes)
Computer Usage:	NA
ABET criterion 3:	a, d, e, f, g, h, j, k
ABET criterion 8:	b, c, f, g
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