2. N. O. Egiebor, An Introduction to Industrial Pollution Processes & Treatment Methods in Chemical and resource Industries. A bound pre-publication lecture notes (2009)

Course Objectives:

This course builds on the environmental engineering skills and principles taught in the CENG 450 course. The course will be taught with multiple problem examples to illustrate the environmental engineering applications of fundamental science and engineering principles. At the conclusion of the course, students should have acquired the following skills:

1. Engineering principles and design of industrial and municipal wastewater treatment systems.
2. An understanding of the chemical and physical principles used for analyzing high temperature industrial operations and the design of airborne particulate removal equipment
3. Evaluate the parameters of solid waste management and consider the impacts and designs on the end-of-life management options.
4. Define hazardous waste and analyze the concepts for the hazardous waste management
5. Analyze and understand the chemical and physical parameters used in contaminated soil reclamation activities.

Course Outcomes:

Outcomes	1	2	3	4	5	6	7
Objective 1	X		X				X
Objective 2	X						
Objective 3	X						
Objective 4	X						
Objective 5	X						

1. An ability to identify, formulate and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, a1 98 16(lfa)5(r)-6(e)4(, a)4(1 9JETQ

7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Grading and Other Policies:

Effective Spring 2018, the **outlook 365 (tuskegee.edu)** email system at Tuskegee University is REQUIRED for all instructional administrators, faculty, staff and students.

It is critical that all homework, quizzes, term paper/design and exams be completed on time. If you are unable to attend a class or take an exam, it is your responsibility to present an excuse to your instructor. Valid excuses include serious illness, death in the immediate family, and participation in the University-sponsored events. Any other excuse will be evaluated by the instructor. An excused absence allows you to make up any work you missed without any late penalties. Excused students are required to complete any missed work within one week of their return to class. If the students miss the makeup exam, they must show the written valid excuse to makeup it again. It is the student's responsibility to meet with the instructor to submit the missed work for an excused absence. An unexcused absence means that any work (homework/design report) you missed can be turned in for 25% deduction within one week of the due date.

Students need to submit all assignments (homework, term paper/design etc.) by themselves. They should not give their assignments to another student to submit to the instructor. The instructor will not accept this type of submission.

Cheating will not be tolerated. Any student caught cheating will get a zero for that homework, term paper/design, quiz and exam.

Students are not allowed to talk with each other during lecture, quizzes, exams, and final exam.

Students are not allowed to do other class work during this class.

No electronic devices (cell phone, iPad, laptop etc.) except calculator will be allowed during class time, quizzes, exams, and final exam.

Additional policies will be issued, if they are necessary.

Final numerical grades will be determined using the following weighting:

Three class Exams (One Mid-Term Exam)	40%
Homework	5%
Term Paper/Design (Reports and Presentations)	15%
Class Attendance, Participation & Quizzes	15%
Final Exam	25%
Maximum Possible Score	100%

Final Grades:

Final numerical grades will be awarded for cumulative percentage scores as follows:

A	=	90 – 100%
B	=	80 – 89%
C	=	70 – 79%
D	=	60 – 69% (This is a failing grade in the College of Engineering)
F	=	59% and lower (Failing grade everywhere)

Dress Code:

Course Schedule:

Wastewater Treatment (Week: 1-4)
Exam #1*

Air Pollution (Week: 5-7)

Exam #2*

Introduction to Solid Waste Management (Week: 8-9)
Fundamentals of Hazardous Waste Site Remediation (Week: 10-11)
Sustainability and Green Development (12-13)
Exam #3*

Environmental Impact of the Hydrometallurgical Extraction of Uranium (Week: 2 Tfd 0 G[*]TJETQq03nBT/

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