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CET 413-002: Environmental Science

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CET 413-ENVIRONMENTAL SCIENCE

COURSE NUMBER	CET 413-002	
COURSE DESCRIPTION	ENVIRONMENTAL SCIENCE	
COURSE STRUCTURE	(3-0-3) (lecture hr/wk - lab hr/wk - course credits)	
COURSE DESCRIPTION	An introduction to construction-related environmental science topics, including basic environmental chemistry, geology, ground water hydrology, basic air quality, surface water run-off, erosion and sedimentation control, indoor air quality, and vibration analysis. Case studies cover various construction activities with respect to their effect on the environment and the manner in which they can be controlled	
PREREQUISITE(S)	CET 313,314 Construction Procedures I & II, Construction Testing CET 431, Hydraulics	
COREQUISITE(S)	None	
R EQUIRED MATERIALS	Basic Environmental Technology - Water Supply , Waste Management, And Pollution Control By Jerry R. Nathanson (Latest Edition)	
SUPPLEMENTARY Materials	Fluids Text Book	
MANDATORY FIELD TRIP	ТВА	
	By the end of the course students should be able to:1. Understand the design of Hydrologic Systems2. Apply hydraulics and Fluids mechanics to construction systems3. Recognize Environmental Conditions on a Construction Site4. Apply a Life Long Learning Skills	
COURSE OBJECTIVES	 Understand the design of Hydrologic Systems Apply hydraulics and Fluids mechanics to construction systems Recognize Environmental Conditions on a Construction Site 	
COURSE OBJECTIVES CLASS TOPICS	 Understand the design of Hydrologic Systems Apply hydraulics and Fluids mechanics to construction systems Recognize Environmental Conditions on a Construction Site 	

GRADING POLICY Note: Grading Policy may be	Homework, Sample problems and Quizzes Tests Final Exam	30 % 35 % 35%		
modified by Instructor for each	i ilai Exaili	33 %		
Section in the Course)	Note: Cannot pass course if you having failing grades on tests and final exam			
	Makeup examinations will not be given. Therefore, reason for missing an exam, they should discuss with method of weighing the final grade.			
	 The student is responsible for those materials covered in class and any materials assigned as readings as noted by instructor. A student who misses a class is still responsible for submitting materials in on time or they can give adequate notice of any late submittals to the professor before the due date. All exams are cumulative unless otherwise noted by the instructor. All exams are closed book and closed notes. A formula sheet written by the student will be accepted in accordance with the instructor's limitations. The final letter grade will be determined by the total number of points received during the course. Any variations to any of the above requirements are at sole discretion of the instructor. 			
	HOMEWORKS: Homework is due the week following the date they a syllabus), and must be submitted in pdf format on C show how you derived the answers. They will not co grade if they are turned in more than one week late. be handed in individually through Canvas. Sample if the date of the exam and will turned in through Canvas.	anvas. The homework must ount towards your final Homework must Problems are due on		
	ATTENDANCE: The student is responsible for those materials covere assigned as readings as noted by instructor. A studer responsible for submitting materials in on time or the notice of any late submittals to the professor before	nt who misses a class is still ey can give adequate		
ACADEMIC INTEGRITY	NJIT has a zero-tolerance policy regarding cheating behavior that is disruptive to a learning environment immediately reported to the Dean of Students. In the violations are detected, the punishments range from course plus disciplinary probation up to expulsion fr students' permanent record. Avoid situations where misinterpreted. For more information on the honor http://www.njit.edu/academics/honorcode.php	Any incidents will be e cases the Honor Code a minimum of failure in the om NJIT with notations on honorable behavior could be		
STUDENT BEHAVIOR	 No eating or drinking is allowed at the lectures, recita laboratories. Cellular phones must be turned off during the class h 			
	emergency call, leave it on vibrate.	ours in you are expecting an		
	No headphones can be worn in class.Unless the professor allows the use during lecture, la	ptops should be closed during		
	lecture.During laboratory, if you are finished earlier, you mu			
	before you leave class			
MODIFICATION TO COURSE	The Course Outline may be modified at the discretion			

PREPARED BY	Dr. D. Washington
PROGRAM COORDINATOR	Prof. John Wiggins

COURSE OUTLINE

Week	Date	Textbook	Assignment	Topics
1 1	21-Jan	Read Chapter 1	Homework assignment in	Course Outline and Overview
	24-Jan	Read Chapter 1	Canvas for week 1	Course Outline and Overview
2.	28-Jan			Biology and Math for Science
	31-Jan			Application
3.	4-Feb		Homework assignment in	Biology and Math for Science
	7-Feb		Canvas for week 3	Application
4.	11-Feb	Read Chapter 2		Hydrology
ч.	14-Feb	Read Chapter 2		nyurology
5.	18-Feb			Test #1
5.	21-Feb			Hydrology
6.	25-Feb	Read Chapt. 4	Homework assignment in	Water Quality
0.	28-Feb	Reau Chapt. 4	Canvas for week 6	water Quanty
7	3-Mar			Weter O all'
7.	6-Mar			Water Quality
8.	10-Mar	Read Chapt. 5	Optional Homework assignment	Test #2
0.	13-Mar	Read Chapt. 5	in Canvas for week 8	Water Pollution
9.		SPRING RECESS		MARCH 15 TH TO 21st, 2020
			Optional Homework assignment	
10.	24-Mar	Read Chapt. 9	in Canvas for week 10	Water Pollution
	27-Mar	1	_	
11.	31-Mar	Read Chapt. 14	Monday, April 8th – Last Day to	Water Pollution
11.	3-Apr	Read Chapt. 14	Withdraw	water Pollution
12.	7-Apr			Test #3
12.	10-Apr			Industrial Speakers -TBA
13.	14-Apr		Good Friday April 19th School	Industrial Speakers -TBA
15.	17-Apr		Closed	Industrial Speakers - I DA
14.	21-Apr			Storm Water Management
1 1.	24-Apr			
15.	28-Apr			Sound
	1-May			Jound
16.	5-May		Tuesday May 7th, Follows A	Miscellaneous Topics
	8-May		FRIDAY Schedule	Finals Begin

CLASS HOURS

TUES, FRI 2:30 PM – 3:50 PM KUPF 103

OFFICE HOURS (GITC 2504)

Tuesday and 12:00 PM – 1:00 PM – 1:30 PM – 1:3

Or by appointment: (973) 642-7915 or washd@njit.edu home page: http://web.njit.edu/~washd/