



DR. DAVID WASHINGTON
ASSOCIATE PROFESSOR
OFFICE# 973-642-7915 RM# GITC 2504
OFFICE HRS. 12:00PM TO 1:00 PM, FRI

NJIT
New Jersey's Science & Technology University
DEPARTMENT OF ENGINEERING TECHNOLOGY
CONCRETE INDUSTRY MANAGEMENT

CIM 305-002 SPRING 2009
CONCRETE APPLICATIONS II
KUPF107 FRI 1:00PM TO 3:55PM

COURSE OUTLINE

Website: [http:// web.njit.edu/~washd](http://web.njit.edu/~washd)

Email: washd@adm.njit.edu

Main Text: VARIOUS RESOURCES AND HANDOUTS WILL BE DISSEMINATED IN CLASS

Supplementary References: PCA College Literature_CD ROM

One Page Summary Required for all industrial speakers and field trips:

Field Trip: (Based on Availability of Patrons)

Industrial Speakers to be announced based on their availability

Course Description: This course is a continuation of CIMT210 and focuses on codes, specifications and industry standards as well as the production and delivery issues related to traditional and unique concrete applications.

MANDATORY Attendance required at Socials !!! (Patron visit to campus)

Concepts and Skills Developed:

1. Identify various techniques that are employed for various applications in the concrete industry
2. Describe the process of each application and its related codes and regulations

SESSION	1	23-Jan	Course Overview and Review
SESSION	2	30-Jan	Concrete Pavement Restoration
SESSION	3	6-Feb	Life-Cycle Cost/ Concrete .vs. Asphalt
SESSION	4	13-Feb	Underground Systems - Hydraulic Design
SESSION	5	20-Feb	TEST#1 / Underground Systems - Loads and Strength
SESSION	6	27-Feb	Flowable Fill



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COURSE OUTLINE (CONTINUED)

SESSION	7	6-Mar	Concrete Forming
SESSION	8	13-Mar	TEST#2/ Decorative Concrete
(Spring Break -No Classes Scheduled - March 16th to 20th, 2009)			
SESSION	9	27-Mar	Basement Walls & Foundations
(MARCH. 30TH IS THE LAST DAY OF WITHDRAWAL)			
SESSION	10	3-Apr	Insulated Concrete Systems
(APRIL 10TH -NO CLASSES SCHEDULED- GOOD FRIDAY)			
SESSION	11	17-Apr	Cast in Place Concrete, Concrete Pavers
SESSION	12	24-Apr	TENTATIVE SOCIAL FUNCTION (or segmental retaining walls)
SESSION	13	1-May	MISCELLANEOUS TOPICS -Estimations Basics and Concrete Structures
SESSION	14	5-May	CLASS PRESENTATION AND FINAL EXAM REVIEW (CLASS ON TUESDAY - CLASSES FOLLOW A FRIDAY SCHEDULE)

FINAL EXAM - TBA



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COURSE POLICY

HOMEWORKS AND REPORTS:

All homeworks are due one week after it has been assigned. No homework will be accepted one week after its due date or after it has been reviewed in class. All homeworks will be graded on the basis of the student attempt to understand the concept presented in the text or class. Reports must follow the outline or format as directed in class.

Class sample problems are attempted with the teacher in class and are checked off at the end of class.

ATTENDANCE:

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.

FINAL GRADE:

The final grade for the course will be determined by weighing the student's effort as follows:

Homework/Sample Problems	15%
Tests	30%
Field Trip/Papers/Projects	15%
Final Exam	40%

Makeup examinations will not be given. Therefore, if any student has a valid reason for missing an exam, they should discuss with the instructor an alternate method of weighing the final grade.

Exams and Quizzes:

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.

Office Hours/ Consultation:

Hours for advisement and consultation can be arranged with the instructor at a mutually convenient time. Please send emails and/or notify instructor before coming to the office.