

DR. DAVID WASHINGTON ASSOCIATE PROFESSOR OFFICE# 973-642-7915 RM# GITC 2504 OFFICE HRS. 10:30AM TO 11:30AM, TUES

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

CIMT 210-001 FALL 2008 **CONCRETE APPLICATION I** GITC 5602 MON 11:30 AM TO 2:25 PM

COURSE OUTLINE

Website: http://web.njit.edu/~washd Email: http:washd@adm.njit.edu

Main Text: Various resources and handouts will be disseminated in class

Supplementary References: PCA College Literature CD ROM

(CD ROM includes APCA and CRMCA Literature, Concrete Pipe Handbook, ACI Manual of Inspection, PCA Concrete Masonry Handbook, PCI Architectural

Precast Concrete)

Acronyms to know: PCA - Portland Cement Association ACPA - American Concrete Pavement Assoc. CRMCA - Colorado Ready Mix Concrete Assoication , ACI - American Concrete Institute , PCI - Prestressed Concrete Institute NRMCA - National REady Mix Concrete Association

Course Description: Prerequisites: CIMT 101 - Introduction to Concrete and CIMT 205 Concrete Properties and Testing. This course is the first of two courses designed to provide a detailed study of the many applications of concrete in the construction of buildings, pavements, and other facilities as they relate directly to the concrete industry. Emphasis will be placed on the advantages, disadvantages and unique problems facing the concrete industry and suppliers of materials used in the manufacture of concrete products.

MANDATORY Field Trip: TILCON INC. - TO BE ANNOUNCED

Concepts and Skills Developed:

- 1. Identify various areas of applications required in the concrete industry
- 2. Describe the process of each application and its associated cost

SESSION	1	2-Sep	Course Introduction And Overview/Pretest /Concrete Mix Design Review
SESSION	2	9-Sep	HISTORY CONCRETE PAVEMENTS
SESSION	3	16-Sep	PAVEMENT BASICS
SESSION	4	23-Sep	ROLLER COMPACTED CONCRETE
SESSION	5	30-Sep	TEST#1 / FAST TRACK CONCRETE
SESSION	6	7-Oct	SMOOTH PAVEMENT



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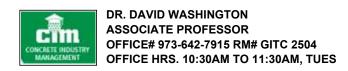
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COURSE OUTLINE (CONTINUED)

SESSION	7	14-Oct	WHITE TOPPING	
SESSION	8	21-Oct	TEST#2/ PERVIOUS CONCRETE	
SESSION	9	28-Oct	HYDRAULIC DESIGN	
SESSION	10	4-Nov	(NOV. 3RD IS THE LAST DAY OF WITHDRAWAL) DECORATIVE CONCRETE	
SESSION	11	11-Nov	INSULATED CONCRETE FORM SYSTEMS	
SESSION	12	18-Nov	CONCRETE FORMING	
SESSION		25-Nov	NO CLASS - CLASSES FOLLOW A THURSDAY SCHEDULE (NOVEMBER 27TH -30TH - THANKSGIVING BREAK)	
SESSION	13	2-Dec	SPECIAL TOPICS	
SESSION	14	9-Dec	CLASS PRESENTATION AND FINAL EXAM REVIEW	

FINAL EXAM - TBA



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COURSE POLICY

HOMEWORKS:

All homeworks are due ONE week after it has been assigned. No homeworks will be accepted one after its due date or after it has been reviewed in class. All homeworks will be graded on the basis of the students attempt to understand the concept presented in the resources or class. Solutions will be posted on the web, and students are responsible for checking their work and asking questions during the class or office hours.

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 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.