



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

**NJIT**  
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](http://web.njit.edu/~washd)

**Email:** [http:washd@adm.njit.edu](mailto: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 Association , **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

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



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**COURSE OUTLINE (CONTINUED)**

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