Instructor: Prof. Weihua Jin, Ph.D., P.E.  Office Hours: W 2:00 – 6:00 PM
Email: wjin@nyu.edu  Office Hours: or by appointment
Telephone: (646) 997-3632

Course Description: This course covers the behaviors of most commonly used civil engineering materials: metals, concrete, masonry, timber, asphalt, and polymer composites. It emphasizes materials science fundamentals, production and processing, engineering properties, chemical durability, and practical applications. Materials sustainability and latest development in innovative materials and technology are also covered.


Grading:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Project</td>
<td>15%</td>
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<tr>
<td>Midterm exam #1</td>
<td>25%</td>
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<tr>
<td>Midterm exam #2</td>
<td>25%</td>
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<tr>
<td>Final exam</td>
<td>35%</td>
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Course Outline:

1. Fundamentals
2. Metals I
3. Metals II
4. Concrete I
5. Exam #1
6. Concrete II
7. Concrete III
8. Concrete IV
9. Masonry
10. Exam #2
11. Asphalt
12. Polymers I
13. Polymers II
14. Final exam

Important Notes:

1. Course contents and grading weights are tentative and subject to change at the discretion of the instructor as the course progresses.
2. Exams are closed-book and closed notes. However, you are permitted to bring to the test one hand-written cheat-sheet of letter size (8 ½ x 11”).
3. Any forms of cheating, copying, or plagiarism in labs, quizzes, and examinations will not be tolerated and will result in zero credit, a “Fail” grade, or disciplinary action by the school.