Fall 2015

ENCE 2311

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University of New Orleans

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Instructor: Mahmoud Hamide
Room #: EN 820
mhamide@uno.edu

Prerequisite: Credit or registration in ENCE 2351

Text: Mechanics of Materials by Beer and Johnson, any edition

Course:
1) Students will be able to draw stress strain curves for tension of metal specimens and Compression tests of concrete cylinders

2) Students will be able to draw torsion versus angle of twist curves for test of round metal rods

Notes: Text of reports must be typed or prepared on a word processor. Be brief but include essential information

Grading:

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<th>Component</th>
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<tbody>
<tr>
<td>Lab. Report</td>
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<td>A-</td>
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<td>Mid-term</td>
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Grading Scale:

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<td>F-</td>
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Reports graded on accuracy, completeness, neatness, presentation, promptness
Report Format:

1) Title page
2) Objectives
3) Equipment used
4) Theory (Equations of mechanics of Materials)
5) Procedure
6) Data and results
7) Charts, Tables, Graphs
8) Calculations
9) Discussion
10) Conclusions

Class 1  Verification of UHTM----------------------------------------------------------------------------------- (No Report)
Class 2  Tensile test metal specimens --------------------------------------------------------------- (Report 1)
Class 3  Preparation of concrete cylinders------------------------------------------------------------(Report 2)
Class 4  Day compression test, direct shear ---------------------------------------------------------- (no Report)
Class 5  Wire tensile test ----------------------------------------------------------------------------- (Report 3)
Class 6  Torsion test------------------------------------------------------------------------------------- (Report 4)
Class 7  Day test concrete cylinders------------------------------------------------------------------- (Report 5)
Class 8  Mid-Term Exam
Class 9  Beam bending test----------------------------------------------------------------------------- (Report 6)
Class 10 Column buckling test-------------------------------------------------------------------------- (Report 7)
Class 11 Hardness test------------------------------------------------------------------------------- (Review)
Class 12 Final Exam