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Fall 2015

ENCE 2311

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University of New Orleans

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University Of New Orleans
College of Engineering
Civil and Environmental Engineering
ENCE 2311
Mechanics of Materials Lab

Instructor Mahmoud Hamide
Room # EN 820
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Prerequisite Credit or registration in ENCE2351

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		Grading Scale
Lab. Report	70%	A- 90-100
Mid-term	10%	B- 80-89
Final Exam	10%	C- 70-79
Attendance	10%	D- 60-69
		F- Below 60

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 -----	(Repot 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	

