

Fall 2015

## **ENCE 4359**

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*University of New Orleans*

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**University Of New Orleans at New Orleans**  
**Department of Civil & Environmental Engineering**  
**Fall 2015**

***STRUCTURAL CONCRETE DESIGN ENCE 4359-601***

**Class Hours: 6:00-7:15 PM, TU/TH**

**Class Room: 319Eng. Building**

**Textbook: STRUCTURAL CONCRETE: THEORY AND DESIGN, SIXTH EDITION/**

**Authors: M. Nadeim Hassoun & Akthem Al-Manaseer**

**ACI 318 -14 Building Code Requirement for Structural Requirement.**

**Instructor: Dr. Qasem Abughazleh**

**Tel.: (504)-287-7095 qabughaz@uno.edu**

**Office Room: 816 Engineering Building**

**Office Hours: TBA**

**Prerequisites:** Mechanics of Materials & Structural Analysis.

**Course Description**

Credit: 3 hours.

Concrete design covers the fundamentals of structural Concrete design using LRFD or may be ASD. By the end of the semester, student will be able to analyze and design beams, compression member, one way slab, spread footing and retaining wall. The design will be based on flexural, shear and torsion strength.

**EXAMS:** There will be four exams and a comprehensive final exam; the best three scores will be counted allowing the student to drop their lowest test score. All or some of the exams are closed book. No makeup exam will be given. In the event that a student misses an exam, it will be dropped as the student's lowest exam score.

**HOMEWORK:** Homework will be assigned for each chapter. Homework will be due at the beginning of the class the same day the following week. All homework will be from the text book. All homework will be submitted on engineering paper in the format discussed in class; not following proper format will cause deduction of points.

**QUIZZES:** Quizzes may be expected at the beginning of each class.

<b><u>Grading System:</u></b>	<b>3 Tests</b>	<b>45 %</b>
	<b>Final</b>	<b>25 %</b>
	<b>Quizzes</b>	<b>15%</b>
	<b>H.W.</b>	<b>15%</b>
	<b>A</b>	<b>93 —100%</b>
	<b>B</b>	<b>83 — 92%</b>
	<b>C</b>	<b>70 — 82%</b>
	<b>D</b>	<b>60 — 69 %</b>
	<b>F</b>	<b>0 — 59%</b>

**Attendance Policy:**

- 1.** Attendance is strongly encouraged (You get the most help in the class).
- 2.** A Quiz may be given at the beginning of each class, starting from the third meeting.
- 3.** You will automatically fail the course if you have four or more unexcused absences.

**Cellular Phone Policy:** No Cellular Phone absolutely in Class

**Graduate Student will be required to do extra work for receiving graduate credit.**  
**Student with disabilities will be accommodated as per the rules.**

## **ENCE 4359—CONCRETE DESIGN**

### **Course plan**

The course will cover the first 11 chapters.

<b>CHAPTER 1: Introduction</b>	<b>08/20/2015</b>
<b>CHAPTER 2: Properties of Reinforced Concrete</b>	<b>08/25/2015</b>
<b>CHAPTER 3: Flexural Analysis of Reinforced Concrete Beams</b>	<b>08/27, 9/3, 8, 10, 15</b>
<b>CHAPTER 4: Flexural Design of Reinforced Concrete Beams</b>	<b>09/ 17, 22, 24</b>
<b>TEST 1:</b>	<b>09/29/2015</b>
<b>CHAPTER 5: Shear and Diagonal Tension</b>	<b>10/1, 6, 8, 13,</b>
<b>CHAPTER 6: Deflection and Control of Cracking</b>	<b>10/15, 20, 22</b>
<b>TEST 2:</b>	<b>10/27/2015</b>
<b>CHAPTER 7: Development Length of Reinforcing Bars.</b>	<b>10 / 29/2015</b>
<b>CHAPTER 9: One Way Slab</b>	<b>11/3,</b>
<b>CHAPTER 10: Axially Loaded Column</b>	<b>11/ 5, 10, 12</b>
<b>TEST 3:</b>	<b>11/17</b>
<b>CHAPTER 13: Footing</b>	<b>11/19, 24,</b>
<b>CHAPTER 14: Retaining Wall</b>	<b>11/26/2015</b>
<b>FINAL EXAM: COMPERHENSIVE &amp; TBD</b>	<b>12/??/2013</b>

*Good Luck*



## Syllabus Attachment

Fall 2015

### Important Dates\*

Last day to adjust schedule w/out fee.....	08/18/2015
Semester Classes Begin .....	08/19/2015
Last day to adjust schedule w/fee, or withdraw with 100% refund.....	08/25/2015
Last day to apply for December commencement.....	09/25/2015
Final day to drop a course or resign .....	10/14/2015
Mid-semester examinations.....	10/05-10/09/2015
Final examinations .....	12/07-12/11/2015
Commencement.....	12/18/2015

*\*Note: check Registrar's website for Saturday and A/B sessions, and for items not listed here: <http://www.registrar.uno.edu>*

### Fall Semester Holidays

Labor Day .....	09/07/2015
Mid-semester break .....	10/15-10/16/2015
Thanksgiving.....	11/26-11/27/2015

### Withdrawal Policy – Undergraduate only

Students are responsible for initiating action to resign from the University (withdraw from all courses) or from a course on or before dates indicated in the current Important dates calendar. Students who fail to resign by the published final date for such action will be retained on the class rolls even though they may be absent for the remainder of the semester and be graded as if they were in attendance. Failure to attend classes does not constitute a resignation. Check the dates on the Registrar's website, <http://www.registrar.uno.edu>. Please consult The Bulletin for charges associated with dropping and adding courses.

### Incomplete Policy – Undergraduate only

The grade of I means *incomplete* and is given for work of passing quality but which, because of circumstances beyond the student's control, is not complete. The issuance of the grade of I is at the discretion of the faculty member teaching the course. For all graduate and undergraduate students, a grade of I becomes a grade of F if it is not converted before the deadline for adding courses for credit (as printed in the Important Dates Calendar) of the next regular semester including summer semester.

### Repeat Policy

When a student is permitted to repeat a course for credit, the last grade earned shall be the one which determines course acceptability for degree credit. A student who has earned a C or better in a course may not repeat that course unless, (1) the catalog description indicates that the course may be repeated for credit, or (2) the student's Dean gives prior approval for documented extenuating circumstances.

### Graduate Policies

Graduate policies often vary from undergraduate policies. To view the applicable policies for graduate students, see the Graduate Student Handbook:

<http://www.uno.edu/grad/documents/GraduateStudentHandbookk2014.pdf>

### Academic Dishonesty Policy

<http://www.uno.edu/student-affairs-enrollment-management/documents/academic-dishonesty-policy-rev2014.pdf>

### Safety Awareness Facts and Education

Title IX makes it clear that violence and harassment based on sex and gender is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. If you or someone you know has been harassed or assaulted, you can find the appropriate resources here:

<http://www.uno.edu/student-affairs-enrollment-management/>

### UNO Counseling Services and UNO Cares

UNO offers care and support for students in any type of distress. Counseling Services assist students in addressing mental health concerns through assessment, short-term counseling, and career testing and counseling. Find out more at <http://www.uno.edu/counseling-services/>. First-year students often have unique concerns, and UNO Cares is designed to address those students succeed. Contact UNO Cares through <http://www.uno.edu/fye/uno-cares.aspx>.

### Emergency Procedures

Sign up for emergency notifications via text and/or email at E2Campus Notification: <http://www.uno.edu/ehso/emergency-communications/index.aspx>. All emergency and safety procedures are explained at the Emergency Health and Safety Office: <http://www.uno.edu/ehso/>.

### Diversity at UNO

As the most diverse public university in the state, UNO maintains a Diversity Affairs division to support the university's efforts towards creating an environment of healthy respect, tolerance, and appreciation for the people from all walks of life, and the expression of intellectual point of view and personal lifestyle. The Office of Diversity Affairs promotes these values through a wide range of programming and activities. <http://diversity.uno.edu/index.cfm>

### Learning and Support Services

Help is within reach in the form of learning support services, including tutoring in writing and math and other supplemental instruction. Visit the Learning Resource Center in LA 334, or learn more at <http://www.uno.edu/lrc/>.

### Affirmative Action and Equal Opportunity

UNO is an equal opportunity employer. The Human Resource Management department has more information on UNO's compliance with federal and state regulations regarding EEOC in its Policies and Resources website: <http://www.uno.edu/human-resources-management/policies.aspx>