

Fall 2015

## CHEM 3710

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*University of New Orleans*

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**Chemistry 3710: Medicinal Chemistry**  
**MWF 1:00 -1:50 PM, MATH 102(auditorium)**

**Professor Mark L. Trudell**

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**email: [mtrudell@uno.edu](mailto:mtrudell@uno.edu)**

**Office Hours:**

**2 – 3:30 PM on M,W; 2 – 4 PM on T, Th**

**or by appointment**

**Text: Medicinal Chemistry: The Modern Drug Discovery Process**

Erland Stevens, Pearson, Upper Saddle River, NJ 2014

ISBN: 978-0-321-71048-2;

**Course Prerequisites:** Completion of CHEM 3218 (or CHEM 2218) and BIOS 2114.

**Student Learning Outcomes:** After successfully completing this course, students will be able to analyze the basics of drug structure, solubility and action. Students will be able to apply the basics of drug discovery and synthesis, drug design and quantitative-structure activity relationships. Students will be able to classify a variety drug targets including receptors, enzymes and oligonucleotides. Students will be able to interpret basic to drug pharmacokinetics and metabolism.

**Tentative Course Content**

Chapter 1	History of Drug Discovery
Chapter 2	Modern Drug Discovery Process
Chapter 3	Trip through the Body
Chapter 4	Enzymes as Drug Targets
Chapter 5	Receptors as Drug Targets
Chapter 6	Oligonucleotides as Drug Targets
Chapter 7	Pharmacokinetics
Chapter 8	Metabolism
Chapter 9	Molecular Structure
Chapter 10	Lead Discovery
Chapter 11	Lead Optimization-Traditional
Chapter 12	Lead Optimization-Hansch
Chapter 13	Aspects of Pharmaceutical Synthesis

**Graded Material:**

<b>Exams (two exams)</b>	<b>200 pts</b>	<b>(15% penalty will be imposed on all late homework)</b>
<b>Homework (Attendance)</b>	<b>400 pts</b>	
<b>Final Exam</b>	<b>100 pts</b>	
<b>Total</b>	<b>700 pts</b>	

**Grading Scale:**      **A** (100-90), **B** (89-75), **C** (74-60), **D** (59-40), **F** (< 40)

**Exam Dates:**

**Exam 1** (Wednesday, September 30)

**Exam 2** (Wednesday November 4)

**Final Exam: Friday, December 11, 2015 at 12:30 – 2:30 PM**

**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

**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.

**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' needs. 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-resource-management/policies.aspx>

## **Attendance:**

Attendance is mandatory. An excessive number of absences will be reported to the Provost's Office and may result in termination of federal financial aid as well as negatively affect the student's grade.

## **Classroom Conduct**

1. Be in class on time. Please do not come five, ten, or twenty minutes late. Distracting interruptions are inconsiderate, disrespectful, and a waste of time. There is no excuse for repeatedly arriving late. Parking is often a hassle; allow enough time for it. Cell phones should be turned off before class begins.
2. Feel free to ask questions of the instructor during class. But please do not ask other students, as talking disturbs my concentration and the concentration of other class members.
3. Students are expected to treat faculty and fellow students with respect. Any actions that purposefully and maliciously distract the class from the work at hand will not be allowed.
4. Civility in the classroom and respect for the opinions of others is very important in an academic environment. It is likely you may not agree with everything that is said or discussed in the classroom. Courteous behavior and responses are expected.