Topics in Biological Chemistry
CHMD H -S
LECTURE OUTLINE

This document contains important course information and should be kept in a safe place where you can refer to it throughout the semester

Welcome to CHMD79H3-S: Topics in Biological Chemistry

elco e to CHMD This course is going to require so e h rd work ut we hope to ke it worth your while y e posing you to so e of the e citing spects of edicin l che istry nd how drugs you encounter in your everyd y lives nd in the news re developed nd function in physiologic l conditions Before we get st rted ple se t ke few inutes to re d through this docu ent It cont ins i port nt infor tion which will help ensure you h ve ll the tools you ll need to succeed in this course

Description: The course focuses on the i port nt concepts in the design nd synthesis of drugs R tion l sis for drug design including synthetic nd edicin l concepts will e discussed Topics include structure ctivity rel tionships synthesis nd re ction ech nis s nd c se studies of drugs Ph r cology nd ph r cokinetics of the v rious drug cl sses in iologic l syste s will e discussed s well s protein enzy e inter ctions with the different cl sses of drugs

Background: Develop ent of odern drug is co plic ted process th t de nds i proved ethods for selective tr nsfor tions of org nic olecules Typic lly edicin l che istry efforts during the discovery st ge focus on gener ting v lu le structure ctivity rel tionships for the co pounds th t re eing screened for ctivity At this st ge the in synthetic ch llenges pert in to the selective tr nsfor tions of v il le uilding locks into diversely function lized deriv tives At the ne t st ge process che ists t ke over the project nd f ce co pletely different issues th t rel te to finding the shortest nd ost efficient route to the c ndid te identified during the edicin l che istry p rt of the c p ign The present course provides n overview of re ctions th t re eing used t different st ges of the drug develop ent process Using represent tive e ples fro the liter ture we will concentr te on v rious cl sses of drugs nd their syntheses

Prerequisites BGYC H Bioche istry I Proteins nd Enzy es nd II Bioenergetics nd Met olis CHMC H Bio org nic Che istry OR CHMC H Org nic Re ction Mech nis s OR CHMC H Org nic Synthesis **It is imperative that you have these prerequisites in order to succeed in the course and if you have enrolled in the course without having these prerequisites, it is your responsibility to discuss your situation with the instructors, otherwise we cannot accept any responsibility for your performance and outcome in the course.**

Lectures:

Mondays 2-4 pm BV363

Lecturer: Dr. Kagan Kerman (SW533)

Reading Week-no classes: Feb 16th to Feb 20th

Email: kagan.kerman@utoronto.ca

Office Hours: Mon 3-5 pm & Wed 4-5 pm (SW533)

Course Website: CHMD79 maintains a Blackboard web space which can be accessed via a variety of course-related information including: class announcements, lecture slides and notes if provided, contact information and links to some useful outside resources. In addition, class emails will regularly be sent via Blackboard. In order for you to receive these emails, you must have a valid "utoronto.ca" email account registered with ROSI.

To login, go to: https://portal.utoronto.ca/webapps/portal/frameset.jsp. Click on "log-in to the portal" at the top left. Login using your UTORid username and password (same as what's used for your UTORmail). Under the "My Courses" box (top right), click on the CHMD71 link.

E-mail policy:

- Use University account
- If Yahoo or Hotmail used follow instructions below to prevent email ending up in junk mail:
  - put CHMD71 in the subject line followed by the reason for the email
  - use a greeting of some kind - NOT "Hey"
  - sign your first and last name
  - please include your student number after your name
- Student emails will be replied to within 48 hours (M-F) provided that the above protocol is used.

Method of Evaluation: The grading scheme for the course is shown in the table below:

Mid-term Test	25%	Mid-term test will be in class on February 26th, 2015.
Final Exam	45%	Entire course work, including lecture notes, assignments/quiz questions.
Weekly in-class quizzes	10%	10-min closed-book quizzes reviewing material from lectures
		Each student will prepare 10 questions That may be asked in the mid-term re f 4352 /T Q 743.9
Assignment-1	10%	

Recommended textbooks:
1) Golan, Tashjian, Armstrong, and Armstrong,

Missed Mid-term Test: The exact date of the mid-term test is provided as February 24th, 2014. Students who miss the term test will be assigned a mark of zero for the test, unless they can document a compelling reason for missing it. Students in that position must submit a written request to the Course Instructor with appropriate documentation. Documentation, for approval, must be given within one week (e.g. Doctor's note - which should say that you were seen on the day in question and that in the Doctor's opinion you were unable to write a test that day). If the documentation is insufficient, you may be required to obtain further signed, paperwork. If a request is accepted for the mid-term test, the weighting of the mid-term will be included to the final exam. There will be no make-up mid-term test.

resources accessed in the UTSC library and the computer labs are to be used for academic research, assignments, and course activities only.

Academic Integrity: Honesty and fairness are considered fundamental to the University's mission, and, as a result, all those who violate those principles are dealt with as if they were damaging the integrity of the University itself. When students are suspected of cheating or a similar academic offence, they are typically surprised at how formally and seriously the matter is dealt with and how severe the consequences can be if it is decided that cheating did occur. The University of Toronto treats cases of cheating and plagiarism very seriously.