

CHMB42 Organic Chemistry

Facilitated Study Groups-FSG

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Organic Chemistry - CHMB42

Winter 2011 Course Syllabus

This document contains important information regarding all aspects of the course and should be referred to throughout the semester.

Lectures: Tuesday 5-6, Wednesday 8-9, Friday 2-3 in AC225 (the ARC)

Instructors: Wanda Restivo until mid Feb
but lab coordinator for whole term.

SW-155A, 416-287-7222

restivo@utsc.utoronto.ca

office hours: Mon 1-3, Wed 2-3:30, Thurs 11-12

Dr. Lana Mikhaylichenko from mid Feb until April

SW- 155B and SW 633, 416-287-7207

mikhay@utsc.utoronto.ca

CHMB42 provides an introduction to compound determination using various spectroscopic methods. As well you will learn about aromatic substitution, carbonyl chemistry and biologically important compounds such as carbohydrates, and heterocycles. You will have a four hour lab every other week alternating with a one hour tutorial.



Required Materials:

Text: Organic Chemistry (10th edition) by Solomon, and Fryhle, Wiley publishing. This is the same text you would have used in CHMB41.

If you did not use it last term you may purchase it in the bookstore along with the study guide and the Wiley Plus access code. This will be required for the the online homework system.

The publisher's web site at: <http://wiley.com> includes media materials, which supplement the text.

Chapters: 2:15 to end, 9, 14,15, 17 will be covered in the first half of this course.

Online Homework: WileyPlus

Class URL: <http://edugen.wiley.com/edugen/class/cls197703/>

Set up your account according to code package bought from the bookstore. The problem sets will be released every **Friday evening** after each chapter is finished and they are due the following **Friday at midnight**

The assignments will be equally weighted and recorded as a percentage. They will cover the material discussed in class.

Late assignments will not be graded. All assignments will count.

Lab Manual: purchased in the bookstore and is required for all lab practicals

Course Organization:

Lectures- Total of 3 hours per week.


The lecture schedule is a rough guide. Incomplete notes will be provided for you on **blackboard**. You should print them off and bring them with you to class. You should also bring some blank paper. **You will be responsible for all material covered in lecture, even if it is not included in the online notes.** Assigned problems will be posted with the lecture material. It may seem like there are so many questions but many of them are quickly answered when going through the reading of the chapter. You will be successful in this course by doing the problems and coming for help when difficulty arises.

Online viewing:

For those students who wish to review the lecture after the fact, all CHMB42 lectures will be taped and posted online with a link posted on Blackboard. (Bb) These lecture will only be up for 2 weeks.....never to be seen again....so do not put off your viewing.

Forward queries to webopt@utsc.utoronto.ca .

Lecture schedule : this is a rough guide

Week of:	Chapter
Jan 11	IR-chapter 2 and Ch 9- Mass Spec
Jan 17	Ch 9 –NMR
Jan 24	14 Aromatic compounds
Jan 31	15 Reactions of Aromatic compounds
Feb7	17 Carboxylic Acids and derivs
Feb14 	17 cont'd and review

This is a tentative schedule. Some parts of the lecture, like naming for example, I will leave for you to go over on your own time. I hope to be doing more problems in class. Some of these will be from your text but most will be from other sources.

This course requires diligent work. It is NOT a course where you will be successful in a last minute effort.

Labs- 4 hours in length - every other week

There are 5 labs and a lab test which is cumulative. It may be both written and practical. There will be a quiz (10 minutes) at the beginning of **every** lab, **including the first one.** (The questions at the back of the experiments will not be graded and the answers are on Blackboard. Try to do them before you look at the answers. They will ask you things that you may not have thought of when reading the experiment.)

Odd # labs begin: Jan 19 (Even numbered labs will have a tutorial)

Even # labs begin: Jan 26 (Odd numbered labs will have a tutorial)

Day	Time	Room	Practical number
Wednesday	9-1	SW153	1,3 / 2,4
Wednesday	9-1	SW159	5 / 6
Thursday	1-5	SW153	9, 11 / 10, 12
Thursday	1-5	SW159	13, 15/ 14, 16
Friday	9-1	SW153	17, 19 / 18, 20

Tutorials- 1 hour in length -alternating with lab schedule

Even numbered practicals begin Jan 19, **odd** begin Jan 26

Day	Time	Room	Practical Number
Wednesday	12-1		
		HW402	1/3, 2/4
		HW408	5/7, 6/8
Thursday	1-2		
		HW309	9/11, 10/12
		HW310	13/15, 14/16
Friday	11-12		
		MW140	17/19, 18/20

The tutorials will be assigned based on your lab number so you cannot sign into one. Last day for signing into a practical section will be Jan 13. Any change after that date will have to be requested of Wanda Restivo if space allows.

There will be 5 tutorials. You must attend at least 4 of them. I do not need to have a reason or note if you miss one. It will be your choice. **However if you miss 2 tutorials (i.e. attend only 3) then you will have 1% deducted from your final grade.** You will have a further 1% deducted for every subsequent absence. Again no notes or excuses will be accepted. So use this "free" day wisely.

Course evaluation:

1 Midterm test- (~2 hours) Chapters: 2:15 to end, 9, 14,15, 17 inclusive Exam schedule TBA	25%
Tutorials- online homework	5%
Lab 5 experiments and final lab test- see manual *There will be no makeup for the lab test.	25% must pass to pass course
Final exam during final exam schedule (cumulative)	45%* must pass to pass course
Extra credit	TBA

If you are sick you must provide the University of Toronto medical certificate within one week of your missing the lab/test/tutorial. It must be dated the day of the illness and must state that you were unable to write/do the lab/test/tutorial. Every effort will be made to allow you to make up the lab/test/tutorial. All notes should be given to Wanda. Note that the labs are full and this will be problematic in trying to do a makeup lab.

Missing a lab because you have a test that day is not a valid excuse and you will receive a mark of 0 for that lab.

To achieve a passing grade in this course you must pass both the lab and the final exam. If you fail the final exam you will NOT receive a passing grade. The extra credit will not be counted towards achieving a pass in the course.

Communication:

All grading in this course will be on the UTSC **intranet**. (You will need a UTSC computer account to access it.) All of you should have one by now. You may access the intranet by going to:

<http://intranet.utoronto.ca>

All your individual marks will be displayed on the **intranet** once they have been completed. You will have 2 weeks from the time they go up to check for errors. A final date will be given, after that date- no corrections will be accepted.

Lecture notes, announcements, pre-lab answers will be found on on **Blackboard**. Discussion groups will only be found on Blackboard. You may access it at:

<https://portal.utoronto.ca/>

You should get used to checking this site frequently for any important announcements.

Emails

All emails should be from a utsc or utoronto address and use formal language. Other email providers may go directly to junk mail and not be read. Always include your full name and student number. If talking about a lab or tutorial please include the lab number and your TA in your email. Do not email chapter questions or mechanism questions. These are best done in person. If it is suitable, than post it on the discussion board.(see last page)

Academic Policy:

Academic integrity is important to maintain our community which honours the values of honesty, trust, respect, fairness and responsibility and to protect you and the value of the degree towards which you are all working so diligently

<http://www.governingcouncil.utoronto.ca/policies/behaveac.htm>

It is an offence for students to:

- Use someone else's ideas or words in their own work without acknowledging that those ideas/words are not their own with a citation and quotation marks. i.e. to commit plagiarism
- Include false, misleading or concocted citations in their work.
- Obtain unauthorized assistance on any assignment
- Provide unauthorized assistance to another student. This includes showing another student completed work.
- To submit their own work for credit in more than one course without the permission of the instructor
- To falsify or alter any documentation required by the University.- eg: doctor's notes
- To use or possess an unauthorized aid in any test or exam.
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There are other offences under the Code, but these are the most common. Please respect these rules. Offences will be dealt with according to the procedures outlined in the Code of Behaviour on Academic Matters.

Accessibility:

In this course students with diverse learning styles and needs are welcome. In particular, if you have a disability/health consideration, that may require accommodations, please feel free to approach me and/or the Access/Ability/ Services Office. I will work with you and Access/Ability /Services to ensure you can achieve your learning goals in this course. Enquiries are confidential. The UTSC Access/Ability/ Services staff (located in S302), are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations

(416) 287-7560 or ability@utsc.utoronto.ca

<<mailto:ability@utsc.utoronto.ca>>.



Where to get help for this course:

1- **Instructor's office hours**

- 2- **A peer facilitator program, FSG-** Facilitated Study Group is being run through the Centre for Teaching and Learning. These weekly sessions are open to all students taking this course who want to improve their understanding of course material, improve their study techniques, and improve their grade. Attendance is voluntary. In these sessions you will compare notes, discuss important concepts, develop study strategies, and prepare for exams and assignments on course material. Course material is NOT re-lectured. The FSG's are lead by a trained facilitator who has previously taken the course. A survey will be taken during the first week of class to determine the best days and times for most students, and they will begin probably the 2nd or 3rd week of class.

Any announcements will be announced in class, posted on Bb and also at <http://ctl.utsc.utoronto.ca/home/fsg/>

3- **Lab Skill Seminars**

There will be lab skills seminars throughout the term. These are run by Science Engagement students and times and place will be posted on Blackboard

- 4- **Discussion group on Blackboard-** one general and then one each for each chapter.. This the best place to ask questions related to the course as the questions will get answered quickly by your peers and the answer will get out to the most people.

I will be checking regularly

This course has a reputation for being tough which is unfounded. It **IS** a course that requires a lot of **TIME and PRACTICE**. You will be unsuccessful if you do not keep up on the material every day.

This course is like building a house. If the foundation is not well built the rest will crumble. You may have to go over your material from CHMB41 over and over. Use your text book to its fullest potential.



As soon as you are having difficulty with a problem.....ask for help. We are here to help you understand organic chemistry so don't feel shy. We do not judge you, we want to help.

You must practice it **every day**.



I look forward to meeting you all –Say hi to me in the hallway!!

Wanda

