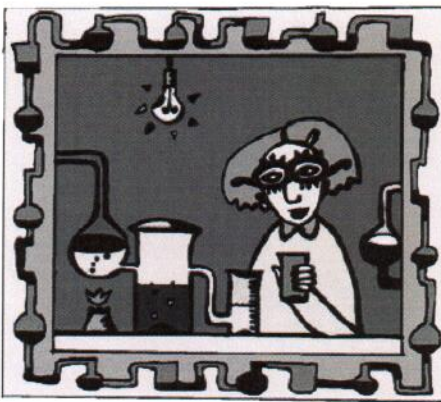


# Organic Chemistry - CHMB42 Winter 2010 Syllabus



**Lectures:** Tues 5-6, Wed 8-9 am, Fri 2-3 in AC223

**Instructors:** Wanda Restivo until Reading Week (Feb 12)  
but lab coordinator for whole term.  
SW-155A, 416-287-7222  
[restivo@utsc.utoronto.ca](mailto:restivo@utsc.utoronto.ca)

Dr. Lana Mikhaylichenko  
SW- 155B and SW 633, 416-287-7207  
[mikhay@utsc.utoronto.ca](mailto:mikhay@utsc.utoronto.ca)

**Wanda's office hours:** M 9:30 – 11, W 2- 3:30, R 10-11:30 in SW 155A

## **Required Materials:**

**Text:** Bruice, Organic Chemistry, 5<sup>th</sup> edition, Pearson

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

You should purchase the manual from the bookstore prior to your lab. There are fewer printed than the number of students in the course, so make sure you purchase early. You must have the manual to do the lab. No concessions will be made for you if you don't. Note, you may not use a lab manual from a previous year as many of the experiments are changed between years.

## **Course Organization:**

**Lectures-** Total of 3 lectures per week.

**Labs-** 4 hours in length - every other week

Odd # labs begin: Jan 13 (Even numbered labs will have a tutorial)

Even # labs begin: Jan 20 (Odd numbered labs will have a tutorial)

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 the **intranet.** 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.

**Tutorials-** 1 hour in length -alternating with lab schedule

Done by practical number

| Tutorial | Day   | Time  | Room   | Start date | Start date |
|----------|-------|-------|--------|------------|------------|
|          |       |       |        | Jan 14     | Jan 21     |
|          | Wed   | 12-1  | AA 112 | 2,4        | 1,3        |
|          | Wed   | 12-1  | HW308  | 6,8        | 5,7        |
|          | Thurs | 1-2   | MW 402 | 10,12      | 9,11       |
|          | Thurs | 1-2   | BV355  | 14,16      | 13,15      |
|          | Fri   | 11-12 | BV340  | 18         | 17         |
|          |       |       |        |            |            |

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 6. Any change after that date will have to be requested of Wanda Restivo if space allows.

### **Course evaluation:**

#### **2 Midterm tests**

**(60 minutes) each worth 12.5% for a total of 25%**

First will be on Chapters 12-14 inclusive and the second on Chapters 13-18.7 inclusive and cumulative.

These will be written outside of class time. The exact dates, times and locations will be announced as soon as they are available. **Please note that there will be no make-up exams for a missed test.** Should you miss a term test due to a legitimate medical illness, you will need to submit documentation. Normally this would be in the form of an official UTSC medical form completed by your doctor ([http://www.utsc.utoronto.ca/~registrar/resources/pdf\\_general/UTSCmedicalcertificate.pdf](http://www.utsc.utoronto.ca/~registrar/resources/pdf_general/UTSCmedicalcertificate.pdf)); However, due to concerns of an outbreak of the H1N1 flu virus, it is possible that you will not be able to see a doctor if you present flu-like symptoms. In this case, you should document your illness on ROSI and submit the ROSI confirmation instead of the UTSC medical note.

With a validated absence, the percentage for the term test will be added to your final exam making it worth 57.5% of your final mark. Please note that on page 328 of the 2009/2010 UTSC Calendar it states: "You cannot petition to withdraw from a course on the grounds that no work was returned to you before the last day to withdraw without academic penalty if this is the result of your having been given an extension to complete your work for reasons relating to you and not the rest of your class." ***If no acceptable medical note is received to validate your absence, you will receive a grade of zero for that test.***

**Tutorials**      5% - 5 quizzes where all will count

**Lab**                25%\* 5 experiments and final lab test- see manual

\*There will be no makeup for the lab test.

**You must pass both the lecture and the lab to pass the course**



To prepare for a lab:

<http://reel.utsc.utoronto.ca/chemB41>

This is a site where you can see the set up of glassware for different methods: distillation, reflux, extraction, and recrystallization as well as the conformers of cyclohexane. This will be immensely helpful to you before the lab.

**Final exam** 45% during final exam schedule (cumulative)

There will be a 3-hour, **cumulative** exam written during the end of semester exam period. The exact date, time and location will be announced as soon as they are available. ***Please note that if you miss the Final Exam, you must petition the Registrar's Office to write a make-up exam in the next formal exam period.*** Check the UTSC Calendar for instructions and deadlines.

**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.

**Communication:**

All communication in this course will be on the UTSC **intranet**. Your lab and tutorial TA's will only have access to the **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.utsc.utoronto.ca>

(We are in the process of learning how to use Blackboard so lecture notes and announcements may be found on **Blackboard** at a later time and will be announced at that time, but all lab announcements and grades will always be found on the intranet.) To access **Blackboard** <https://portal.utoronto.ca/>

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.

**Class notes:**

The lecture schedule is a rough guide. Incomplete notes will be provided for you on the intranet. 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:**

The lectures will be videotaped and posted online. You will be able to view them for up to a week after the lecture date at which point they will be removed from view.

**Lecture schedule:** this is a rough guide

| Week of: | Chapter                      |
|----------|------------------------------|
| Jan 4    | Syllabus + 12- MS and IR     |
| Jan 11   | 12 -13 -NMR                  |
| Jan 18   | 13-14 Aromaticity            |
| Jan 25   | 15 Substitution on aromatics |
| Feb 1    | 16 Carbonyl type II          |
| Feb 8    | 16 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.

In your manual on page 2 you will find the following:

**2010 Winter CHMB42H3 Marks Record**

Lecture tests count for 75% of the final mark. You will have 2 term tests and one final exam. The course weightings are listed above.

Lab Marks - 25% of the course calculated as below:

| Experiment     | Quiz         | Products/data sheets | Notebooks     |
|----------------|--------------|----------------------|---------------|
| Dehydration    | /10          | /10                  | /5            |
| Spectroscopy   | /10          | /20                  | NA            |
| Brom of Phenol | /10          | /15                  | /5            |
| Lidocaine      | /10          | /10                  | /5            |
| ASA/DA         | /20          | /10                  | /5            |
| Lab test /60   | Total Q= /60 | Total P= /65         | Total NB= /20 |
| Lab test /3    | Total Q/2    | Total P+NB= /85/1.7  |               |
| =20%           | =30%         | =50%                 |               |
| Sum=100/4=25%  |              |                      |               |
|                |              |                      |               |

You should keep track of your marks since you will not keep the hard copy of the quizzes and data sheets.



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.

**Where to get help for this course:**

- 1- Instructor's office hours. This should be your primary method of getting help. We are friendly and helpful...bring your friends ☺
- 2- A peer facilitator program is being run this year through the Academic Services and our facilitator, will tell you more about this at the first lecture.
- 3- Lab skills seminars will run by upper year students to help with all labs
- 4- A former student will be running extra help sessions on weekends and some evenings. TBA

This is a fast paced course mostly due to the amount of material that needs to be covered. Our goal is to help you gain the skills and knowledge to better understand organic chemistry and thereby be successful in this course. Your final grade will be what you earned in this course and no requests to change it will be responded to. The time is now to put in the effort and get into good studying habits. If you talk to any students who have taken this course before and done well, they will say that they had to keep up with reading before lectures, do the problems as soon as possible and come to office hours regularly. Get any issues fixed before they impact the next chapter.

***You must pass both the lecture and the lab to pass the course***

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

Wanda