Chemistry 1100a Course Outline (2011–2012)

Discovering Chemistry I

A course outline is an official document that provides you with information pertaining to a course's dates, requirements, evaluation, and policies.

Mandatory Notice from the Registrar

Unless you have either the prerequisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites. The prerequisite for Chemistry 1100a is Grade 12 Chemistry, or Grade 11 Chemistry plus the permission of the Department of Chemistry. Antirequisites are Chemistry 1050, 1024a/b, 1020, 020, and 023. The website of the Office of the Registrar is http://www.registrar.uwo.ca.

Accessibility

Please contact the course instructor if you require material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 661-2111 ext. 82147 if you have questions regarding accommodation.

Code of Conduct

To foster a supportive and enriching academic environment that is conducive to learning and free inquiry, Western has adopted a Student Code of Conduct (http://www.uwo.ca/univsec/board/code.pdf).

You can expect your instructor to promote this environment and also respect each student's unique views and opinions. Since Western is also a part of *your* environment, it is not unreasonable to expect the same from you. Activities that disturb another student's right to this environment will not be tolerated. These include things such as talking in class about matters not relevant to course material, using electronic devices inappropriately, and disruptive classroom behavior.

You can also expect your instructor to come prepared, on time, and eager to teach. In turn, we expect that you will come prepared, on time, and ready to learn.

Student Development Centre

Students are encouraged to make use of the free, study-skills courses and other services provided by the Student Development Centre, http://www.sdc.uwo.ca.

Course Website

Students should check WebCT (http://owl.uwo.ca) on a regular basis for news and updates. This is the primary method by which information will be disseminated to all students in the course.

Learning Expectations

Chemistry 1100a is a one-semester chemistry course that includes lecture (3 hours per week), lab (3 hours every second week), and tutorial (1.25 hours every second week) components.

The course is intended to provide students with a fundamental understanding of atomic structure, chemical bonding, gases, and thermodynamics. In addition, there will be emphasis on the development of critical-thinking, problem-solving, analytical, and quantitative-reasoning skills; these "soft skills" are essential to success in not just chemistry but also in other courses and many occupations.

Any student receiving credit for Chem 1100a will be expected to demonstrate competence in his or her ability to:

Course-Specific Expectations	**Soft-Skill Expectations**
Recognize the importance of chemistry in everyday life and the interdisciplinary nature of chemistry. Think critically about, explain, integrate, and apply chemical principles, laws, and theories. Examine, integrate, and assess any provided or collected chemical data. Solve a variety of novel problems, both qualitative and quantitative. Draw scientific conclusions from experimental results or data. Use a variety of laboratory equipment and instrumentation. Learn a variety of experimental techniques and the theory behind them. Safely perform experimental procedures.	Analyze and critically assess problems, and take a systematic approach to solve them. Work independently. Form productive and collaborative working relationships with other individuals. Obtain, evaluate, and integrate information from various sources, and determine its relevance. Prioritize a set of tasks and manage the use of his or her time. Perform mathematical calculations. Communicate thoughts, ideas, and observations verbally and in writing. Recognize when to seek assistance. Develop respect for, and comply with, regulations and policies. Learn to accept responsibility for his or her decisions, actions, and non-actions.

Students who wish to perform successfully in this course must have a thorough, in-depth *understanding* of the course material. Tests and exams will be designed to evaluate your comprehension of the material and your ability to apply it to new and different scenarios, and not simply your ability to regurgitate memorized facts or substitute numbers into formulas.

Lecture Sections and Instructors

Lecture Section	Time (MWF)	Room	Instructor	Office	Email
001	8:30 – 9:30	NCB 101	Ms. Kay Calvin*	MSA 1201	kcalvin@uwo.ca
002	9:30 – 10:30	NCB 101	Ms. Kay Calvin*	MSA 1201	kcalvin@uwo.ca
003	12:30 – 1:30	NS 1	Ms. Kay Calvin*	MSA 1201	kcalvin@uwo.ca
004	1:30 – 2:30	NS 145	Dr. Paul Ragogna	BGS 2024	pragogna@uwo.ca
005	2:30 – 3:30	NS 1	Dr. Yang Song	CHB 22	yang.song@uwo.ca

*Course coordinator

Before sending email, please see the section below and also the section on email policies, which is found on the next page.

Should I Always Contact My Own Instructor?

Not necessarily. The amount of behind-the-scenes work associated with the running of any large course is immense. To maximize efficiency, each instructor has taken on a specific set of responsibilities. Only the instructor responsibilities that are directly pertinent to you are listed below. To ensure a speedy response, please contact the proper individual.

Issue	Person of Contact
Lab marking	Lab coordinators*
Late lab reports, other lab issues and quiz marking issues	Dr. Paul Ragogna
WebCT content, including answers to the workbook problems	Ms. Kay Calvin
Requests to view your scantron sheet **Note: requests to view your scantron must be made within two weeks of your mark being released.**	Dr. Yang Song
Tutorial quizzes	Ms. Kay Calvin
Academic accommodation for athletes, requests for grade-breakdown letters	Ms. Kay Calvin

*The lab coordinators are Jan Mathers and Sandra Zakaria Holtslag, and they are in MSA 1235.

Email Policies

We are required by law to comply with privacy regulations, so you must use your Western email account (http://mail.uwo.ca) whenever you contact us. Email from a non-uwo.ca address will not be responded to – how are we supposed to know who cutiepie1992xoxo@gmail.com is? To prevent your email from being filtered out by the university's anti-spam system, please include *Chem 1100* in the subject line.

Email should only be used for administrative purposes. In order to maximize efficiency and to allow your instructors to respond to legitimate concerns as quickly as possible, emails of the following nature will *not* be responded to:

- Questions about course material or on how to do a particular problem in the workbook. Such questions should be taken to the Resource Room.
- Questions that can be answered based on the information found in this course outline. Being able to find information yourself is an important soft-skill and employability outcome.
- Requests for grade increases, extra assignments, make-up labs, etc. (see page 11).

Please do not hesitate to contact any one of the instructors if you have any constructive comments or feedback on any aspect of Chem 1100a. We are always trying to improve the course!

Resource Room

Chem 1100a operates a Resource Room (MSA 1205) for those who wish to seek assistance with the course material. The Resource Room will be staffed by chemistry teaching assistants. A schedule will be posted on WebCT.

The setting is very informal, so simply drop by during the operating hours to ask questions. Remember, there are no dumb questions!

Course Materials

All the materials below are required and are available at the Western BookStore, located in the UCC.

Chemistry 1100a Course Workbook, 2011–2012 edition

- Old editions may not be used. Topic coverage varies from year to year. All lectures, tests, and exams will be based on this year's edition. Students who nonetheless choose to use an old edition must realize that the use of an old edition cannot be used as a basis for appeal.
- Class lectures are designed to help students understand the material in the workbook and develop problem-solving skills. To obtain the maximum benefit from the workbook and from lectures, it is recommended that you read the relevant topics prior to coming to class.

Chemistry 1100a Laboratory Manual and Past Exams, 2011–2012 edition

- Old editions may not be used. Students must bring this year's edition to every experiment.
- Safety glasses are included with the purchase of the lab manual. See the front cover of the lab manual for details.

Lab Coat

- Designer lab coats, often sold as hospital scrubs or consultation coats, are not acceptable; they are too short and/or do not offer sufficient protection to the upper body.

Molecular Model Kit, by Darling Models

- Other model kits may be used, but we highly recommend this kit because it is used by many chemical professionals.

Sharp EL-510R(B) scientific calculator

- The Sharp EL-510R(B) is the ***only*** calculator model permitted in the labs and during tests and exams. All other brands and Sharp models will be confiscated. Proctors and instructors for tests and exams do not lend calculators. It is your responsibility to bring the correct calculator and to ensure that it is in proper working order. It's not a bad idea to bring a spare calculator of the same model! The sharing or exchanging of calculators during tests or exams is strictly forbidden.

Outline of Course Topics

Class Topic	Approx # of Classes	Covered on…
Administration	1	
In-Class Knowledge Quiz on High School Chemistry	1	
General Review	2	Test #1
Chapter 1: Atomic Theory	3	
Chapter 1: Periodic Properties	1	
Chapter 2: Ionic and Covalent Bonding	4	Test #2
Chapter 2: VSEPR Theory	2	
Chapter 2: Valence Bond Theory	2	
Chapter 2: Molecular Orbital Theory	2	
Chapter 2: Intermolecular Forces	1	
Chapter 3: Introduction to Gases	1	Final Exam
Chapter 3: Ideal Gas Law	2	
Chapter 3: Real Gases	1	
Chapter 4: Heat and Work	2	
Chapter 4: Enthalpy	4	
Chapter 4: Sources of Energy	1	
Chapter 5: Entropy	2	
Chapter 5: Free Energy	1	

Lectures will also feature visiting speakers from academia, industry, and government. These visiting speakers will present a short segment of their work and how it relates to chemistry.

Tests and exams are cumulative but emphasize the material covered since the previous test/exam. Topic coverage may be adjusted to reflect lecture progress.

Evaluation

Components

The overall course grade, out of 100, will be calculated as listed below. Listed next to the respective components are their maximum contributions toward the course grade.

Component	Notes	Max Value
Laboratory	Laboratory Orientation (mandatory)	1
	Four experiments (3.00 each)	12
Quizzes (see page 9 for details)	Knowledge Quiz (based on participation)	1
	Four paper quizzes held in tutorials (2.00 each)	8
	Online quiz on WebCT	1
Test #1	Saturday, October 15, 7:30 – 9:30 pm	12
Test #2	Saturday, November 12, 6:30 – 8:30 pm	25
Final Exam	Scheduled by the Registrar, three hours	40

Everything in this course counts. Nothing will be "dropped."

In order to obtain credit for the course, all five of the following requirements must be met:

1. Obtain a minimum of 6.00 out of 12.00 (50%) on the experimental component. This mark is calculated from all four experiments. A missed experiment is assigned a mark of zero unless it has been "excused" (see section on Missed Course Components).
2. Miss no more than two experiments, whether excused or not.
3. Must write 3 of the 5 (4 paper and one online) quizzes.
4. Obtain a minimum *weighted average* of 50% on the two tests and the Final Exam. That is, the sum of the Test #1 mark out of 12, the Test #2 mark out of 25, and the Final Exam mark out of 40, must be greater than or equal to 38.5 out of 77.
5. Obtain a minimum of 50 out of 100 on the overall course grade. Students who meet this requirement, but fail to meet all of the above requirements, will receive a course grade no greater than 40 out of 100.

Important Legalities

It is Department of Chemistry policy that any student repeating a chemistry course must repeat the entire course, including the lab component. There are no lab exemptions.

It is Faculty of Science policy that a student who chooses to write a test or exam while ill is deemed medically fit to write and the student must accept the mark obtained. If you become ill *during* a test or exam, please contact your Dean's Office immediately after the test or exam.

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following website: http://www.uwo.ca/univsec/handbook/appeals/scholoff.pdf. Computer-marked, multiple-choice tests and exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

Aside from the specified calculator, no other electronic devices (phones, MP3 players, etc.) may be in your possession during tests and exams, even for timekeeping purposes.

Students who arrive unprepared or late for a lab will receive a zero for that lab. No credit will be given for the pre-lab exercises. Students are deemed unprepared if they arrive in inappropriate attire or without a completed pre-lab, or possess a plagiarized pre-lab, old lab report, or report with pre-filled observations. Students are deemed late if they arrive after the lab doors have closed. Lab technicians and teaching assistants have the right to eject students from the lab.

Quizzes

A total of six quizzes will count for 10.00 of the overall course grade.

The in-class Knowledge Quiz covers all aspects of high school chemistry. Your mark on the Knowledge Quiz does not count towards your Chem 1100a grade, but a participation mark of 1.0 of the overall course grade is allocated to this quiz. That is, the completion of the quiz automatically results in a mark of 1.0 regardless of your actual performance on the quiz.

Quiz	Approximate Topic Coverage	Max Value
Knowledge Quiz	High school chemistry	1
Tutorial Quiz #1	General Review, Atomic Theory	2
Tutorial Quiz #2	Bonding, VSEPR Theory	2
Tutorial Quiz #3	Valence Bond , MO Theories and Intermolecular Forces	2
Tutorial Quiz #4	Gases, Heat and Work	2
Online Quiz (WebCT)	Enthalpy, Entropy, Free Energy	1

Missed Course Components and Late Lab Reports

If you are unable to meet a course requirement due to illness or other serious circumstances, you must provide valid medical or supporting documentation to your Dean's Office as soon as possible. For further information please consult the university's medical illness policy at http://www.uwo.ca/univsec/handbook/appeals/accommodation_medical.pdf.

A student requiring academic accommodation due to illness must use the Student Medical Certificate (https://studentservices.uwo.ca/secure/medical_document.pdf) when visiting an off-campus medical facility.

Missed Tests and Final Exam

There are no "make ups" for either of the two tests. If the Dean's Office has approved your circumstances, the following shift of weight will occur:

- Missing Test #1 shifts its weight to Test #2
- Missing Test #2 shifts its weight to the Final Exam

If you miss the Final Exam, contact your Dean's Office as soon as possible. They will assess your eligibility to write the Special Exam (SPC) in January, 2012.

In accordance with guidelines set by the university senate, we will approve an SPC exam if you have three exams in three consecutive periods (*e.g.* 2 pm, 7 pm, 9 am). However, we will not authorize SPC exams for those with a "heavy exam load" (three exams in four or more periods), nor for those with conflicts. The Registrar will make arrangements for students with conflicting exams.

Missed Labs or Quizzes

There are no make-up labs or quizzes, and it is not possible to reschedule them. If you miss a lab or tutorial for any reason, you will be assigned a mark of zero for that lab or tutorial. If the missed lab or tutorial is due to a reason that is approved by your Dean's Office, the zero will be replaced by a mark of EXCU (excused), which shifts the weight of the missed lab or quiz onto all of the other labs or quizzes, respectively.

You must, within one week of the absence, submit documentation to your Dean's Office. If they approve your circumstances, please ask them to send an email to: **chem1x00@uwo.ca**. *This email is for the use of your Dean's Office only; you should never send email there.*

Chem 1100a entrusts your Dean's Office with the task of assessing your circumstances and deciding whether academic accommodation is warranted. Thus, the email from your Dean's Office must explicitly state that they recommend the granting of academic accommodation. If the email states that the granting of academic accommodation will be left at the decision or discretion of the instructor, it will not be granted.

Tests and exams will contain questions related to the theoretical aspects of the experiments. Students are responsible for the material pertaining to the missed labs.

Late Lab Reports

Late lab reports will not be accepted and will be given a mark of zero unless your reason for missing the deadline has been approved by the Dean's Office.

You must, within one week of the due date, submit documentation to the Dean's Office. If they approve your circumstances, please ask them to send an email to **chem1x00@uwo.ca** to confirm that academic accommodation has been granted. Then, submit your report to **Dr. Paul Ragogna (BGS 2024)** regardless of who your instructor is. He will have the report marked as though it were handed in on time.

Equal Opportunity and Evaluation Policy

All individuals involved in the offering of 1100a were, at one time, students themselves. Accordingly, they thoroughly understand the importance of course grades and the hard work that you will invest into this course. They are there to help you succeed in Chemistry 1100a.

The university is committed to academic integrity and has high ethical and moral standards. All students will be treated equally and evaluated using the criteria presented in this course outline and their respective weights. The evaluation criteria are based strictly on actual achievement, not on effort or how hard the student tried. Claims of an excellent academic history, of attendance in the course components, or of personal issues (family, relationship, financial, etc.) cannot be used to justify a higher grade in course because they are not criteria for evaluation.

There is no extra work available for extra credit or to "make up" another grade. We do not offer any extra assignments, essays, experiments, or other work of any kind to any student.

Note that the requirement for a higher grade in order to, for example, maintain a scholarship, enter a program, or obtain a higher GPA for various reasons, is not a justifiable reason for increasing your grade. If we increased or "bumped" your grade (*i.e.* gave you a grade that you did not legitimately earn), it would be unfair to the other students and also a great disservice to the scholarships and programs who are evaluating all students on the basis of their grades.

Laboratory and Tutorial (Quiz) Schedule

Every course has its own lab/tutorial schedule. Do not assume that because another course does not have a lab/tutorial during a certain week, this course does not have one either. If you miss a lab/quiz due to your inability to follow this schedule, you will receive a zero for that lab/quiz.

Week of...	Odd-numbered lab/tutorial sections	Even-numbered lab/tutorial sections
Sept 19	Lab Orientation	Lab Orientation
Sept 26	Expt #1: Synthesis	Tutorial Quiz #1
Oct 3	Tutorial Quiz #1	Expt #1: Synthesis
Oct 10	*Thanksgiving week. No labs or tutorials are scheduled for this week.*	
Oct 17	Expt #2: Acid-Base Titration	Tutorial Quiz #2
Oct 24	Tutorial Quiz #2	Expt #2: Acid-Base Titration
Oct 31	Expt #3: Molar Volume	Tutorial Quiz #3
Nov 7	Tutorial Quiz #3	Expt #3: Molar Volume
Nov 14	Expt #4: Thermodynamics	Tutorial Quiz #4
Nov 21	Tutorial Quiz #4	Expt #4: Thermodynamics

Laboratory Information

Laboratory Zone

The laboratory in the Materials Science Addition 1220 is divided into four zones (A, B, C, and D). During the weekend of September 17, your zone assignment will be posted in your WebCT Gradebook. Note that even though it will be posted in your Gradebook, it is about your location in the laboratory and has nothing to do with your grade.

Laboratory Orientation

All students **must** attend Lab Orientation, which takes place during the week of September 19. If you miss Lab Orientation, please immediately contact your instructor for instructions.

Students in an odd-numbered lab/tutorial section will proceed to the lab at 9:30 am, 2:30 pm, or 6:00 pm to perform Lab Orientation. Students in an even-numbered lab/tutorial section will proceed to the lab at 11:00 am, 4:00 pm, or 7:30 pm.

Before coming to Lab Orientation, read the Safety Regulations, Safety Contract, Introduction, and Significant Figures sections of the lab manual. **Bring the lab manual and your calculator with you**.

At Lab Orientation, you will meet your laboratory TA. You will read, sign, and hand in the Safety Contract in the lab manual; this contact must be handed in or your name will not be on the class list. You will be shown the safety features of the lab; hear about lab preparation, marking, prelab exercises, and the dress code; shown how to use the balances; and briefly introduced to significant figures. You will perform a few calculations and an enjoyable scavenger-hunt activity that will familiarize you with lab equipment. These exercises count towards your grade in the course.

Preparation

Read each experiment carefully and check the course website for any experimental information that may be posted. Each experiment will also refer you to the *Tools of Chemistry* section of the manual, which you must also read prior to coming to the lab.

Prelab exercises must be completed before the lab period. When you arrive at your lab, there will be additional questions on the video screen. These are designed so that you must read the experimental strategy and procedure prior to completing the exercise.

Lateness Policy

Any student who arrives after the doors to the lab have closed is considered to be late and will not be permitted to do the experiment, and a mark of zero will be assigned for that experiment. No credit will be given for the prelab exercise.

Safety and Dress Code

Western is committed to workplace health and safety, and has strict safety regulations. Even your instructor has to follow them! Lab TAs and technical staff will eject students who, in their opinion, do not meet the safety requirements or are not prepared, as described below. **These students, and those who arrive late, will receive a zero for the entire experiment, and no credit will be given for the prelab exercise.**

Eye Protection

Safety glasses or goggles must be worn by everyone whenever laboratory work, including the getting, cleaning, and returning of glassware, is being performed. Students who wear prescription glasses must wear safety glasses or goggles over their regular glasses. If you wear contact lenses, you must inform the lab TA that you are wearing contact lenses.

Safety glasses can also be rented for $2.00 per lab period.

Lab Coat, Pants, Socks, and Footwear

A more detailed description of the dress code is available in the Lab Manual. For hygienic reasons, the Department of Chemistry does not rent shoes, socks, pants, or lab coats.

Lab coats must be worn, buttoned up. Students must have a lab coat to enter the laboratory. They may not leave after the video or the prelab talk to get a lab coat or have one delivered.

Students must wear ankle-length pants, socks that cover the ankle, and shoes that cover the whole foot (top, sides, and back) without any "cutout holes". Shorts, sandals, and capris are among the items of clothing that are not acceptable.

Submitting Lab Reports

Lab reports are to be placed in the appropriate box located in the Resource Room (MSA 1205) no later than one week after the **start** of your experiment. For example, if your lab starts at 9:30 am, the lab report must be handed in by 9:30 am of the next week.

Tutorial (Quiz Session) Information

For the location of your tutorial, please see the Registrar's timetable: http://www.registrar.uwo.ca

Tutorials are where you will write the Tutorial Quizzes. Each tutorial is no more than 1.25 hours long. There will be no opportunity for you to ask questions about course material at the tutorial.

A one-hour paper quiz will be handed out approximately five minutes after the start of each tutorial. You must be present for the first 30 minutes of the quiz, and you will not be allowed entry after this time.

You must write the quizzes in the tutorial section in which you are registered. It is not possible to "make up" missed quizzes or to reschedule quizzes.

Frequently Asked Questions

How can I "make up" a missed lab or tutorial?

There are no make-up labs or tutorials.

I missed a lab/tutorial/test/exam because I overslept, I missed the bus, I couldn't find the room, I misread the schedule, traffic was heavy, I had a date, or I had tickets for a show. What will happen?

A mark of zero will be assigned to the missed lab, tutorial, test, or exam.

I missed a lab/tutorial/test/exam because my flight was delayed or cancelled, or I got bumped.

If your flight was delayed or cancelled, or you got bumped due to circumstances beyond your control, please contact your Dean's Office. However, if you were bumped because you were

knowingly flying stand-by, you were therefore aware of the potential outcome and must accept the consequences.

I was feeling unwell when I wrote the test/exam, so I did poorly. What should I do?

The policy of the Faculty of Science is that you have deemed yourself fit to do so and it is too late to do anything after the fact. If you are genuinely unwell, do not write it. Consult the *Accommodation for Medical Illness* policy at http://www.uwo.ca/univsec/handbook/appeals/accommodation_medical.pdf for more details.

I have a lab/tutorial/test that coincides with a religious observance. What should I do?

Most of the standard religious observances are already noted in the *Western Multi-Faith Calendar* (http://www.uwo.ca/equity/docs/mfcalendar.htm), and you should inform your instructor as soon as possible. If you are requesting accommodation that is not on this list, please bring documentation to your Dean's Office. More details are found in the *Accommodations for Religious Holidays* policy, http://www.uwo.ca/univsec/handbook/appeals/accommodation_religious.pdf.

What should I do if a test or exam for another course conflicts with my lab/tutorial?

Policy of the university Senate is that a regularly scheduled class (lecture, lab, or tutorial) takes precedence, even over tests and exams. Ask the instructor of the other course to accommodate you.

Can I use a calculator other than the Sharp EL-510R (or RB)?

No. This strict calculator policy was introduced to combat a growing trend to bring high-powered calculators, or even hand-held computers, to tests and exams. Some of these devices are capable of storing a lot of information. A strict calculator policy, using an inexpensive-but-adequate calculator, was the fairest way to ensure that no student gets disadvantaged. This policy will be applied firmly.

Can you recommend a tutor?

Before considering a tutor, don't forget about the Resource Room. It's free!

Private, third-party review or tutor services are not affiliated with, or endorsed by, the university. As such, the university cannot be responsible for any of the content they provide, even if the content causes you to answer exam questions incorrectly. Because of liability reasons, your instructors are not permitted to suggest or recommend any specific tutors. This is not to say that there aren't any excellent tutors out there – in fact, there are lots of them!

Students should realize that they may not hire tutors who are also Chemistry 1100a teaching assistants, even if they are not from your own lab or tutorial section. This is a serious legal matter pertaining to conflict of interest. If you are ever in doubt, please do not hesitate to ask your instructor.

My high school commencement falls on the same day as one of the tests. Can I write the test at an earlier time? Can I write it after I get back?

No. Commencement is not a university-endorsed event. However, your instructors understand how important commencement is to you and your family. After all, graduating from high school is a significant milestone in your education! Therefore, we will give you the option of missing the test and shifting its value, as described under *Missed Tests and Exams*. Please contact your Dean's Office as soon as possible with the appropriate documentation and ask them to send an email to **chem1x00@uwo.ca**.

What is the prerequisite for Chem 1200b?

In order to take Chem 1200b, one must have obtained credit for Chem 1100a.

Credit for Chem 1100a will be granted if all the requirements listed under *Evaluation* have been met.

Success Strategies for Chemistry 1100a

1. Read the relevant workbook sections before class, and attend all classes.
2. Study the material after each class. Don't fall behind in studying lecture material.
3. In general, for every hour you spend in any university-level class, you will need to spend three hours working on that course. More importantly, how effectively you study is more important than the amount of time you spend studying. Make sure you have an in-depth understanding of the material.
4. Attempt the problems in the workbook. Learn the concepts involved and not just the question itself.
5. Prepare for each laboratory in advance by reading the lab manual and doing the prelab exercise. Pay attention during the prelab video. Study the theory and concepts behind the experiment.
6. Study for tests and exams well in advance. Don't rely on last-minute cramming.
7. When writing test and exams, read the question carefully.
8. Your instructors are here to help you do well, so don't hesitate to ask them for study tips.
9. Read the policies and procedures in the university's Academic Calendar.
10. Again, thoroughly *understand* the material – don't just memorize it!

The titles and headings in this course outline are for ease of reference only and are not to be taken into account in the construction or interpretation of the text to which they refer.