These information sheets provide answers to most of your questions about the organization of the course. We suggest that, after reading them carefully, you keep them with your notes for future reference. The online version on AVENUE contains useful links.

COURSE OBJECTIVES

Chemistry 1E03 is a general chemistry course discussing fundamental aspects of chemical phenomena with examples and applications drawn mainly from inorganic and materials chemistry. Three general topics will be covered including 1) chemistry in aqueous solution, 2) structural and bonding properties of atoms and molecules, and 3) energetic aspects of chemical reactions. A more detailed course content is found below. Tutorials and laboratory experiments will help students develop their problem-solving skills and some basic laboratory skills.

SECTIONS AND INSTRUCTORS

Chemistry 1E03 is taught in three sections. Students may not transfer between these sections unless there is a genuine and serious conflict. Such students should see the Laboratory Coordinator, Dr. Linda Davis in ABB-121, during the first week of classes.

- SECTION 01 - Dr. R. Dumont (ABB 234) Mon, Thu 9:30, Tues 10:30 (MDCL-1305)
- SECTION 02 - Dr. P. Kruse (ABB 263) Mon, Thu 12:30, Tues 13:30 (BSB-147)
- SECTION 03 – Dr. P. Britz-McKibbin (ABB 231) Mon, Thu 15:30, Tues 16:30 (TSH B128)

LABORATORY COORDINATOR

Dr. L. J. M. Davis (ABB 121, ext. 22485; davislj@mcmaster.ca)

The laboratory coordinator coordinates the teaching assistants, labs and tests for all sections of the course. Scheduling, permission and exemption issues for labs or tests should be addressed to her.

ENG 1A00

All students taking chemistry courses must complete (or must have previously completed) this safety course presented by Environmental & Occupational Health Support Services (formerly Risk Management). The course is offered through AVENUE and can students can register through MOSAIC. Students not viewing this course should contact EOHSS http://www.workingatmcmaster.ca/eohss/ (eohss@mcmaster.ca, x24352) to be added.
ONLINE COURSE MANAGEMENT.

Chemistry 1E03 will make use of AVENUE an integrated set of tools for delivering course components over the Internet. For example, sample tests, personalized quizzes, tutorials, and a course bulletin board will be available.

Since AVENUE courses are maintained in a secure environment on the Internet, only students registered in Chemistry 1E03 have access to the materials. In order to login to AVENUE you need:

1. the internet address: http://AVENUE.mcmaster.ca
2. your user name: it is your MacID (if the Registrar has not yet added you to the electronic course list, we will not have your MacID on our database)
3. your password: you will be given a password when you sign-up for your MacID.

If you attempt to login to AVENUE and find that you are not registered under the expected user name and password, follow the steps described on the AVENUE login page. If your registration is delayed and you need early access to the website, contact your instructor.

It is essential that you login to AVENUE as soon as possible since the assumed knowledge practice quiz, the safety quiz, and your personalized Quiz 1 (due Tuesday September 22\textsuperscript{nd}, 8:00 am) are located there.

LABORATORIES

Labs are held from Monday-Friday 8:30 to 11:00 a.m, 11:30 a.m. – 2:00 p.m. and from 2:30 to 5:00 p.m in the Arthur Bourns Building (ABB). Evening labs also take place from 5:30-8:00 pm on Monday and Tuesday only. There are five experiments scheduled every other week through the term. Your personal timetable will indicate your assignment to a lab section. Each lab section is assigned to a particular room and to week EVEN (even section numbers, L02, L04…etc.) or week ODD (odd section numbers, L01, L03, etc…). If you have not been assigned to a lab section, see the Laboratory Coordinator in ABB-121 as soon as possible. Lab section changes must be done on-line using MOSAIC within this introductory week. Students must only attend the lab that appears on their timetable, otherwise lab attendance and grades will not be recorded.

Each lab experiment is 2.5-hours in length and begin the week of September 21\textsuperscript{st} for Lab Week Even; Lab Week Odd start labs during the week of September 28\textsuperscript{th}. Consult the schedule on Page 12 for complete details (also available on AVENUE). Safety goggles (available at the The Campus Store) must be worn at all times in the laboratory. You must have these goggles and your lab books before your first scheduled lab experiment.

Consult AVENUE for information on what you will need before coming to your first laboratory.

All students must watch the Safety Video on AVENUE and pass the safety quiz associated with the video to gain entry to the labs. THE SAFETY QUIZ will be available ON-LINE UNTIL SEPTEMBER 18\textsuperscript{th}. Students who complete the quiz with a score of 10/10 will receive a 0.5% bonus added to the final course mark.
LAB EXEMPTIONS

All students repeating CHEM1E03 who want to be exempted from the lab program must see the Lab Coordinator in ABB 121 by September 16th. The criterion used for lab exemption is two-fold: completion of CHEM1A03 or CHEM1E03 courses at McMaster University within the last 4 years, and completion of all lab experiments. Lab exemption will not be given to students who withdrew from the course. There is no partial exemption for some of the labs. There is no lab exemption granted on the basis of courses taken at another university. If the exemption is granted, the lab mark obtained previously will be used to calculate your final course mark.

TUTORIALS

Weekly tutorials are run by teaching assistants and concentrate on the development of problem-solving skills. They are scheduled Monday to Friday at 14:30-15:20 in ABB 136 and will start the week of September 12th. You may attend tutorials any day you choose, seating is on a first-come-first-served basis.

Tutorial questions and other resources will be found on AVENUE. If you wish to work on the tutorial questions, you must access and print them before attending a tutorial session. The solutions to tutorial questions will be posted on AVENUE at the end of each week.

ONLINE MODULES

On Avenue, we have provided access to a series of E-Learning Modules. Viewing these modules is highly recommended as they review several topics discussed in lecture.

OFFICE HOURS

- A Chemistry tutor will be available ABB 142 for one-to-one and group assistance. Hours will be posted on AVENUE and on the door to the tutor room.
- The Laboratory Coordinator’s office hours in ABB 121 will be posted on AVENUE.
- Instructors will hold office hours at a location to be announced. Chemistry 1A03 and 1E03 instructors will staff these hours. Please check AVENUE for the location and schedule.

QUIZZES, TESTS, AND EXAMINATIONS

There will be six personalized Quizzes during the term to be completed and submitted online via AVENUE. Solutions to your quizzes will be available for you on AVENUE shortly after the due dates. Five of six quizzes will be counted towards your final grade. Quizzes can be submitted any time once they have become available on AVENUE. They must be submitted before 8:00 AM on the dates shown in the CHEM1E03 schedule (page 7).

**Note that quizzes cannot be submitted in written form or by email to any of the instructors or the lab coordinator. Try to submit well before the deadline to avoid unexpected server problems on the last day. It is your responsibility to ensure that your quizzes are submitted on time. Quizzes not submitted by the deadline will not be marked.**
The two **Term Tests** will be scheduled on the following days:

- **Test 1:** Friday, September 30\(^\text{th}\), 2016 from 8:00 – 9:30 pm, Rooms TBA
- **Test 2:** Friday, November 11\(^\text{th}\), 2016 from 8:00 - 10:00 pm Rooms TBA

Pre-existing conflicts should be discussed with the course coordinator a minimum of 1 week in advance of the test date.

The **December Final Examination** (2.5 hours), scheduled by the Registrar’s Office, will test all course content from the Fall term. **This examination must be written in order to pass the course.**

**REQUESTS FOR RELIEF OF MISSED ACADEMIC TERM WORK**

If you are absent from the university for a minor medical reason, lasting fewer than 3 days, you may report your absence, without documentation, using the McMaster Student Absence Form (MSAF). Absences for a longer duration or for other reasons must be reported to your Faculty/Program office, with documentation, and relief from term work may not necessarily be granted. When using the MSAF, report your absence to davislj@mcmaster.ca. Then contact the Laboratory Coordinator immediately (normally within 2 working days) in person in ABB 121 to learn what relief may be granted for the work you have missed. **There are no make-up quizzes or tests. Missed labs must be completed at a later time (scheduled at the end of term) to obtain credit.**

The MSAF on-line, self-reporting tool cannot be used to apply for any missed final examination or its equivalent. See *Petitions for Special Consideration* in the Undergraduate Calendar.

**CALCULATION OF FINAL MARK IN CHEM 1E03**

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
<th>Details</th>
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<tbody>
<tr>
<td>Quizzes</td>
<td>10%</td>
<td>(5 @ 2% each)</td>
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<tr>
<td>Labs</td>
<td>15%</td>
<td>(5 @ 3% each)</td>
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<tr>
<td>Term Test 1</td>
<td>15%</td>
<td></td>
</tr>
<tr>
<td>Term Test 2</td>
<td>20%</td>
<td><strong>Cumulative</strong></td>
</tr>
<tr>
<td>Final Exam</td>
<td>40%</td>
<td><strong>Mandatory/Cumulative</strong></td>
</tr>
</tbody>
</table>

**Total** 100%

**Note 1:** Students must complete and submit a report for a minimum of 4 laboratory experiments to pass the course.

**Note 2:** Students must complete a minimum of 75% of the course work to obtain credit for CHEM 1A03. This 75% must include the final exam and laboratory components.

**Note 3:** The instructor(s) and university reserve the right to modify elements of the course during the term. The university may change dates and deadlines for any or all courses in extreme circumstances. If either type of modification becomes necessary, reasonable notice and communication with the students will be given with explanation and the opportunity to comment on changes. It is the responsibility of the student to check their McMaster email and course websites weekly during the term and to note any changes.
CALCULATORS

The two term tests and the final examination all require a calculator. THE ONLY ACCEPTABLE CALCULATOR IS THE CASIO FX 991 (MS, MS +/- and ES models all acceptable) available at the Campus Store. NO OTHER CALCULATOR IS PERMITTED DURING TESTS AND EXAMS.

REQUIRED ITEMS

- The Textbook for the course is General Chemistry, 11th edition, by R.H. Petrucci. Used textbooks can be purchased from the The Campus Store.
- CHEM 1A03/1E03/1AA3 Laboratory Manual: (Hayden – McNeil) with carbonless sheets must be purchased from the Campus Store. No other manuals will be acceptable.
- Safety goggles (~ $12) may be purchased from the Campus Store. Lab coats are strongly recommended.
- The Chemistry Handbook, Part 1, by R.S. Dumont (available on AVENUE under “content”)

COURSE CONTENT

- Chapters 1, 2, 3, 4 and 6 constitute fundamental skills (Matter, Measurements, Significant Figures, Atomic Theory, Elements, Ionic and Molecular Compounds, Basic Nomenclature, Concept of Mole, Oxidation States, Stoichiometry, Solutions, Limiting Reactant and Gas Laws excluding Kinetic-Molecular Theory). These topics will not be discussed in class but will figure in the quizzes, term tests and final examination. It is your responsibility to review this material and you should attempt the Review Quizzes on AVENUE (not for credit) to check your understanding of it.

- The Chapters listed below represent the Core Course Content of Chem 1E03. This material will be covered in the lectures, tutorials, quizzes, labs, term tests and final examination. A tentative number of lectures per chapter is given in brackets. The course will include a total of 33 lectures plus 3 in-class reviews before the tests and the exam. (see pg 7)

  Chap. 8 Electrons in Atoms (3)
  Chap. 9 Periodic Trends (2)
  Chap. 10 Chemical Bonding: Basic Concepts (5)
  Chap. 5 Reactions in Aqueous Solutions (4)
  Chap. 15 Chemical Equilibrium (3)
  Chap. 7 Thermochemistry (4)
  Chap. 19 Entropy and Free Energy (5)
  Chap. 20 Electrochemistry (4)
  Chap. 16 Acid-Base Equilibria (3)

- NOTE: Laboratory Experiments are a formal part of the course content. The term tests and final examination will include questions related to the laboratory material.
SENATE POLICY STATEMENTS

All students should read and become familiar with the Statement on Student Academic Responsibility and the Academic Integrity Policy as found in the Senate Policy Statements distributed at the time of registration and available in the Senate Office. Any student who infringes on these resolutions will be treated according to the published policy.

Academic dishonesty consists of misrepresentation by deception or by other fraudulent means and can result in serious consequences, e.g. the grade of zero on assignment, loss of credit with a notation on the transcript (notation reads: “Grade of F assigned for academic dishonesty”), and/or suspension or expulsion from the university. It is your responsibility to understand what constitutes academic dishonesty.

The following illustrate only four of many forms of academic dishonesty:

- Plagiarism, e.g. the submission of work that is not one’s own or for which other credit has been obtained;
- Copying or using unauthorized aids in the laboratory exercises;
- Improper collaboration on group or individual work;
- Copying or using unauthorized aids during tests and examinations.

Copyright Policy: In this course you will have access to material that is subject to copyright laws. This includes (but is not limited to) the textbook, solutions manual and all resources developed by the instructors such as lab manuals, demonstration videos, quizzes, assignments, tests, class notes and class slides. Under no circumstance are you allowed to share or redistribute this material in any printed or electronic form without the explicit written consent of the copyright holder. This includes posting any course material on Internet bulletin boards, course repositories, social networks, etc.

DISCRIMINATION POLICY

McMaster University is concerned with ensuring an environment that is free of all adverse discrimination. If there is a problem that cannot be resolved by discussion among the persons concerned, individuals are reminded that they should contact their Department Chair, or Human Rights & Equity Services, as soon as possible. Issues involving teaching assistants should also be brought to the attention of the Lab Coordinator.

STUDENT RESOURCES

There are many opportunities for students seeking any number of help opportunities while enrolled at McMaster. Please make yourself familiar with the services offered on campus.  
Student Success Center which is on campus to engage students and alumni in diverse learning opportunities to support their academic, personal and professional growth. 
http://studentsuccess.mcmaster.ca/

Student Wellness providing counseling and medical services including wellness education. 
http://wellness.mcmaster.ca/

Student Accessibility Services offers various supports for students with disabilities 
http://sas.mcmaster.ca/

Chem 1E03 Schedule

Page 6 of 8
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<tr>
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<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
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<td><strong>September</strong></td>
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<tr>
<td>No lab</td>
<td>5</td>
<td>Labour Day</td>
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<td>8</td>
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<tr>
<td>No lab</td>
<td>12</td>
<td>No labs this week</td>
<td>13</td>
<td>14 Last day for add/drop/swap</td>
<td>15</td>
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<tr>
<td>EVEN Exp 1</td>
<td>19</td>
<td>Tutorials Begin</td>
<td>20 Quiz 1 Due 8:00 am</td>
<td>21</td>
<td>22</td>
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<tr>
<td>ODD Exp 1</td>
<td>26</td>
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<td>30 Test 1: 8:00 pm Rooms TBA</td>
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<td><strong>October</strong></td>
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<td>EVEN Exp 2</td>
<td>3</td>
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<td>4 Quiz 2 Due 8:00 am</td>
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<td>No labs/classes</td>
<td>10</td>
<td>Thanksgiving</td>
<td>11 Mid-term Recess</td>
<td>12 Mid-term Recess</td>
<td>13 Mid-term Recess</td>
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<tr>
<td>ODD Exp 2</td>
<td>17</td>
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<td>EVEN Exp 3</td>
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<td>25 Quiz 3 Due 8:00 am</td>
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<td><strong>November</strong></td>
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<td>ODD Exp 3</td>
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<td>EVEN Exp 4</td>
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<td>8 Quiz 4 Due 8:00 am</td>
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<td>ODD Exp 4</td>
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<tr>
<td>EVEN Exp 5</td>
<td>21</td>
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<td>22 Quiz 5 Due 8:00 am</td>
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<td><strong>December</strong></td>
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<td>ODD Exp 5</td>
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<td>5</td>
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<td>6 Makeup Labs (TBA) Quiz 6 Due 8:00 am</td>
<td>7 Classes End Makeup Labs (TBA)</td>
<td>8</td>
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<td></td>
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<td>9 Exams Begin (to Dec 22)</td>
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</table>
FINDING CHEMISTRY ON CAMPUS

Lectures are held in the Burke Science Auditorium, BSB 147, in the Michael DeGroote Centre for Learning and Discovery, MDCL 1305 or in Togo Salmon Hall B128. Labs, tutorials and all staff and instructors’ offices are in the Arthur Bourns Building (ABB). This building also houses the room for instructor office hours (TBA), the tutorial room (ABB 136) and help centre (ABB 142).