2015

Chemistry 100-002 Introduction to Chemistry Fall 2015

Andrew Holm

*Parkland College, aholm@parkland.edu*

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**Recommended Citation**


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Course Syllabus
CHE 100-002: Introduction to Chemistry
Parkland College
Fall 2015

<table>
<thead>
<tr>
<th>Lecture:</th>
<th>M 11 am-12:50 pm (on alternating Mondays)</th>
<th>Room L244</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>W 11-11:50 am</td>
<td>Room L244 (not P104)</td>
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<td></td>
<td>F 11-11:50 am</td>
<td>Room L244 (not P104)</td>
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<tr>
<td>Lab:</td>
<td>M 11 am-12:50 pm (on alternating Mondays)</td>
<td>Room L-125</td>
</tr>
</tbody>
</table>

Instructor: Andrew Holm
Office: D125
Phone: 353-2049
E-mail: aholm@parkland.edu

Office Hours:
In Center for Academic Success (CAS) – D126
Wednesdays from 10-10:45 am
Thursdays from 12-12:45 pm

If the above hours do not work for you, feel free to call on the phone, send mail, or schedule an appointment for help at some other time as well.

Pre-requisite: MAT 071, MAT 081, MAT 095, or recent high school algebra with a grade of C or higher. This prerequisite is very important.

Welcome the CHE 100 at Parkland College!

I realize that many of you come into this course with some hesitation. You may have had some struggles with chemistry before this. I’ll make every effort to make this a successful learning experience for you. I want this to be a meaningful semester and I’ll try to make learning chemistry a positive experience. And it will require consistent, hard work on your part.

This course is designed for people with little or no high school chemistry, those who had chemistry long ago, and/or those who tried CHE 101 and did not do well. This course will prepare you for continued studies in the biological and chemical sciences as well as help you apply chemical concepts to make sense of the world around you. This course has been organized to offer you the tools necessary for success. If you have any questions or concerns in this course, do not hesitate to contact me. The sooner we deal with any problems the easier it will be for you!

How to Succeed in CHE 100? Come to class each time, prepare for class ahead of time, work with your group, do the homework, stay up with the material, and ask Questions when something is unclear.
Required Materials

**Textbook:** *Introductory Chemistry, 5th edition, Custom for Parkland College*, by Nivaldo J. Tro (MasteringChemistry access code included) ISBN: 1323115021. **This version is available in the Parkland Bookstore.**

Or you can purchase *Introductory Chemistry, 5th edition*, by Nivaldo J. Tro (Mastering Chemistry needs to be purchased separately) ISBN- 032191029X. Publisher: Pearson/Prentice Hall. **You’ll have to go online for this version of the book.** (There is an e-book version too).

Please bring this text to class daily – I’ll refer to problems and sections of the book in class or have you work problems from it.

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**Packet of Interactive Lecture Notes and Labs: Be sure to get the packet with the name, Andrew Holm, on the front cover.**

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**Scientific Calculator:** Any simple scientific calculator is sufficient as long as it is capable of scientific notation. A graphing calculator is not necessary. **You are responsible for understanding how to use your calculator.** Bring your calculator to every class session, including quizzes and exams.

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**Note on Cell Phones:** Cell phones & digital organizers are not permitted on desk tops during quizzes & exams – you’ll need to use another calculator, not your cell phone.

**Cell phones and pagers should be put on vibrate prior to class. Texting in class is forbidden !!! Please cooperate...**

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**LAB MATERIALS:**

**Laboratory Manual:** *CHEMISTRY 100 Lab Manual*. This packet of lab experiments/reports is available in the Parkland College Bookstore – 3-holed punched for a binder – **it’s included at the end of the packet of Lecture Notes.** This contains instructions for each lab we’ll do this semester. **BE SURE TO GET THE PACKET WITH THE NAME, ANDREW HOLM, ON THE COVER.**

**Laboratory Notebook:** A bound Laboratory Notebook with duplicate sheets is also available in the Parkland College Bookstore. This is where you’ll record your data in lab.

**Safety Goggles:** You must purchase your own laboratory safety goggles. These goggles are available in the Parkland Bookstore for under $10.00. If you already have your own, they MUST offer complete protection of the side of your eyes. (Look for the markings "Z87" stamped on the goggles.) Lab safety glasses are NOT acceptable.

**Quarter:** Please bring a quarter to lab on lab days to lock the lab lockers where you’ll store your book bag. Coats and other materials aren’t allowed in lab.

**Shoes that cover your toes:** No open-toed sandals are allowed in lab.
Required Activity

Activation of Student Email Account on Cobra: I will use your Cobra email account to contact you and send reminders and other helpful messages if needed. You have a message from me already. Please be sure to respond to it.

Course Mechanics

According to policy, CHE 100 should meet for lab one hour a week and class for three hours a week. However, it is difficult to have a productive lab session that only lasts a single hour. Therefore, a typical week may consist of four hours of classroom time or two hours of classroom time and two hours of lab. Over the semester, lab hours will average out to one hour per week and classroom hours to three hours per week.

So on some Mondays we'll meet in the classroom and some we'll meet in the lab. Please pay close attention to your day-by-day schedule (called the Course Schedule) so that you know whether we meet for class or lab on Mondays.

Twelve chapters (or at least part of them) will be covered during the semester. The Course Schedule lists the sections of each chapter we will study. Please follow the schedule and do the assignments for the days listed.

Please note the Objectives listed in the Course Schedule – they’re listed with each chapter section. You should use the objectives to guide your study, since you will be responsible for every objective listed. If a concept is not on the objective list, it will never be on a quiz, homework, or test. Quizzes and exams are based on the objectives.

Course Grading

Participation Grade (20%):

I will provide you with a blue handout in class for this portion of the grade. Activities include class preparation, reading the textbook, homework, attendance, Cobra Practice Quizzes, in-class group activities/problems, and skill builder problems.

The practice quizzes are taken online – these are called the Cobra Practice Quizzes; the grades on these quizzes go into your Participation Grade.

All Cobra Practice Quizzes can be taken on any computer with internet access (home or school). To login go to my.parkland. Your Cobra login is the same as your email username and password (unless you have changed your email password; in that case your Cobra password will be the same as your original email password). You are expected to take the quiz on your own time within the specified range of dates and times.

You can take the Cobra Quiz on a chapter as many times as you want. Only the highest grade will be recorded. The purpose of these quizzes is to prepare you for the Written Mastery Quiz. These Cobra Quizzes are an excellent way to test your understanding of the material before you take the Quiz that is worth a higher percentage of your grade.
Note about Academic Honesty: It will benefit you the most if you complete all your Cobra Quizzes alone without receiving or giving outside assistance.

Mastery Quizzes (20%):

The Mastery Quizzes (MQ) will be taken in the Natural Sciences Testing Center (L-161). It’s open from 9 am – 4 pm, M – Th and 9 am – 3 pm on Fridays. Eight of the Mastery Quizzes will be given. The lowest quiz grade will be dropped.

One make-up MQ is permitted – ONLY ONE – there will be a 10% penalty assessed on it. A second missed Quiz will be counted as your lowest dropped one. Make sure you don’t wait until the last minute to take the Quiz in case you run into a problem that prevents you from taking it on the last day it’s available.

The quizzes designed to take approximately 20 minutes to complete, but there is no time limit on the quizzes other than the hours of the Testing Center, i.e., if you enter the Testing Center at 3:40 pm, you have only 20 minutes (they close at 4 pm).

Both quizzes and exams may include a combination of true-false, multiple-choice, short answer, matching, and problem solving.

Exam & Final:

There is one Exam (15%) and one cumulative Final Exam (20%) this semester. The “hour exam” will be given in the Natural Sciences Testing Center (L-161) on specified dates. The exam is designed to take approximately one hour to complete, but there is no time limit on the exam other than the hours of the Testing Center.

A cumulative Final Exam will be given in class on the date shown on the Course Schedule. It covers everything we did this semester.

Laboratory (25%):

Chemistry is a laboratory science, and you will be required to perform lab work and to write reports of your lab work. You will perform eight lab experiments this semester. If you miss a lab due to extenuating circumstances, contact your instructor within one day.

Labs will have two-part assessment (35 - 50 points): Participation and a Lab Report. More information on how the lab grade will be determined will be covered during your first lab period.

Some labs may also have a Pre-Lab Quiz worth 5 or 10 additional points. The Pre-Lab Quiz will be a short, timed quiz over anything in the lab. You can use the lab experiment and your lab notebook when you take the Pre-Lab Quiz.

The Introductory Safety Lab is required if you want to continue in the course. If you don’t do that lab, you’ll be dropped from the course.

Chemistry is a laboratory science – so the lab portion is very important. If you miss more than two labs, you’ll receive an F in the course.
Summary of Course Grading

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<thead>
<tr>
<th></th>
<th># of Assessments</th>
<th>Percent of Overall Grade</th>
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</thead>
<tbody>
<tr>
<td>Participation</td>
<td>TBD</td>
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</tr>
<tr>
<td>Mastery Quizzes</td>
<td>8</td>
<td>20</td>
</tr>
<tr>
<td>Exam</td>
<td>1</td>
<td>15</td>
</tr>
<tr>
<td>Labs</td>
<td>8</td>
<td>25</td>
</tr>
<tr>
<td>Final</td>
<td>1</td>
<td>20</td>
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Makeup Policy

Participation:

Your instructor will explain his policy. Be sure to pick up the handout.

Quizzes:

There is one make-up on the Cobra Practice Quizzes. If you miss one, you will receive a 20% penalty on the make-up.

There is only one make-up Mastery Quiz; after that, there are no other makeup quizzes. Again, there’s a 20% penalty on the make-up. If you miss another quiz, for whatever reason, that quiz will be counted as your lowest and will be dropped.

Exam/Final:

Notify your instructor of extenuating circumstances.

Labs:

You must make up all missed labs to earn credit for CHE 100. There will be a 10% penalty on any make-up lab.

If extenuating circumstances cause you to miss a scheduled lab time, it is YOUR responsibility to contact your instructor no later than one day after you miss the lab. You may be asked to provide evidence for your absence (doctor’s note, etc.) If the absence is approved, an alternate assignment or an alternate time to make up the lab will be provided. You will still be responsible for the concepts that were covered in the lab exercise that you missed.

It’s very difficult to make up a lab, so try to avoid missing any labs if you can.
Withdrawals

The College Catalog states that at midterm (see the Parkland College Class Schedule for date), the faculty member is required to certify students’ attendance, and students who have ceased to attend or actively pursue completion of the course must be withdrawn.

NOTE: After midterm, faculty cannot withdraw any student; withdrawal from a course must be done by the student prior to 5 PM on the last day to withdraw (see the Parkland College Class Schedule for the date). If you quit attending this course and YOU do not withdraw after midterm, you will automatically receive an F – the instructor has no other choice.

STAR (Student Technical Assistance & Resources)

Contact the STAR desk for assistance with technical questions and issues regarding Parkland’s student e-mail, Cobra Learning System, Wi-Fi access, or my.parkland. STAR is now located in the Parkland Library or you may email star@parkland.edu or call the STAR Hotline at 217-353-3333. Assistance available: Monday – Thursday, 9:00 a.m. – 6:00 p.m., and Friday, 9:00 a.m. – 2:00 p.m.

Students with Disabilities

If you believe you have a disability for which you may need an academic accommodation (e.g. an alternate testing environment, use of assistive technology, or other classroom assistance), please contact: Cathy Robinson, Director, Office of Disability Services Room U 260 353-2338 disabilityservices@parkland.edu

Center for Academic Success (CAS)

If you find yourself needing assistance of any kind to complete assignments, stay on top of readings, study for tests, or just to stay in school, please try out the CAS. You can just walk in and ask for help. If you have any questions, contact one of the following staff at the Center for Academic Success in D 120:

Anita Taylor (Phone: 353-2005) or Sue Schreiber (Phone: 351-2441) in D 120.
You may also email the CAS at CenterForAcademicSuccess@parkland.edu.

This syllabus may be changed when needed according to the instructor’s discretion.