

The following is an example syllabus from the Troy Campus, Spring, 2008.

**CHM 1143 - TEAA**  
**Troy University**

**General Chemistry II**  
**Spring 2008 Syllabus**

Lecture: MWF @ 11:00 – 11:50 AM

Room: MSCX 318

Instructor: Dr. Emmanuel Sikabwe

Office: McCall 312E

Phone: 670-3571

email: esikabwe@troy.edu

Office Hours:

MWF: 09:00 – 11:00 AM & MW: 2:00 – 4:00 PM

CHM 1143 covers molecular structure, gases, acid-base theory, solutions, chemical equilibria, and thermodynamics. CHM 1142 is a prerequisite to this course. Your success in the course will depend on how much time you spend **solving problems** in the textbook and consistently doing the online homework.

TEXTBOOKS

- **Required:** *CHEMISTRY*: the Central Science, 11<sup>th</sup> Edition  
Authors: Theodore L. Brown, H. Eugene LeMay, Jr., and Bruce E. Bursten;  
Pearson Education, Inc., 2008
- Online homework (paid subscription required): [www.masteringchemistry.com](http://www.masteringchemistry.com).

COURSE COMPONENTS

- **Hour Examinations (50%)**

Three (3) examinations will be given during the regularly scheduled classes. No make-up examinations will be scheduled. With the exception of emergency situations, written excuses for missing an examination must be presented before the scheduled exam. It may be possible to take the exam later under exceptional situations. The teacher has the last word in this matter.

- **Final Examination (25%)**

A comprehensive examination will be given according to the established schedule.

- **Others:** Online homework (**15%**): Quizzes and class participation (**10%**)

GRADING SCALE:

**A** = 100 – 90 %

**B** = 89 – 76 %

**C** = 75 – 60 %

**D** = 59 – 50 %

Note: - An "Incomplete" may be given only when a student is doing "C" work and cannot complete specific course requirements during the semester because of an illness or a legitimate reason, such as authorized school functions

TENTATIVE SCHEDULE:

<b>Content</b>	<b>Dates</b>
CHAP. 8 – Chemical Bonding	01/09 – 01/11
CHAP. 9 – Molecular Geometry	01/14 – 01/18
CHAP. 10 – Gas Laws	01/23 – 02/01
• <b>First Exam:</b>	<b>Monday, February 04, 2008</b>
CHAP. 11 – Intermolecular Forces	02/06 – 02/15
CHAP. 13 – Properties of Solutions	02/18 – 02/25
CHAP. 14 – Chemical Kinetics	02/27 – 03/03
• <b>Second Exam</b>	<b>Wednesday, March 05, 2008</b>
CHAP. 15 – Chemical Equilibrium	03/7 – 03/24
CHAP. 16 – Acid-Base Equilibria	03/26 – 03/31
CHAP. 17 – More Solution Equilibria	04/02 – 04/18
• <b>Third Exam</b>	<b>Monday, April 21, 2008</b>
CHAP. 19 – Entropy and Free Energy	04/23 – 04/28
• <b>Final Exam</b>	<b>Tuesday, May 6, 2008 at 08:00 – 10:00 AM</b>

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Troy University supports Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, which insure that postsecondary students with disabilities have equal access to all academic programs, physical access to all buildings, facilities and events, and are not discriminated against on the basis of disability. Eligible students, with appropriate documentation, will be provided equal opportunity to demonstrate their academic skills and potential through the provision of academic adaptations and reasonable accommodations. Further information, including appropriate contact information, can be found at the link for Troy University's Office of Human Resources at <http://www.troy.edu/humanresources/ADAPolicy2003.htm>

Dear Student:

In this course you will be using MasteringChemistry™, an online tutorial and homework companion to your textbook.

### What You Need:

- ✓ **A valid email address**
- ✓ **A student access code** (Comes in the Student Access Kit packaged with your new textbook. Otherwise, you can purchase access online at [www.masteringchemistry.com](http://www.masteringchemistry.com).)
- ✓ **The zip code for your school: 36082**
- ✓ **A Course ID: EXAMPLE123CHM456**

### Student Registration

- Go to [www.masteringchemistry.com](http://www.masteringchemistry.com). If asked to identify your text, select the title and edition of your course textbook.
- Click **Register** to register for MasteringChemistry with your student access code. (*Don't have a new access code? You can purchase access by clicking Buy Now. Your purchase path will differ slightly from the registration instructions that follow.*)
- Agree to the **License Agreement** and **Privacy Policy** by clicking the checkboxes.
- Leave "**No, I am a New User**" selected, then type in your **Access Code** in the fields provided. (Enter one "word" per box, without the dashes.)
- Enter your **School Zip Code**, select your **Country** and click **Next**.
- Enter your **Name** and **Email** and select **Your School**.
- Create a personal **Login Name** and **Password**, answer the **Security Question** and click **Next**.

Upon completion, the **Confirmation & Summary** page confirms your registration information. This information will also be emailed to you for your records.

### **Enroll in Your Instructor's Course and/or Access Self-Study Area**

If you receive a Course ID from your instructor, you will use this to "enroll" in your instructor's MasteringChemistry online course so that you can be included in his or her gradebook. If you don't receive a Course ID, you may still be able to access self-study resources.

- Go to [www.masteringchemistry.com](http://www.masteringchemistry.com). If asked to identify your text, select the title and edition of your course textbook.
- Under **Returning User?**, enter the login name and password you created, then click **Log In**.
- Either enter your instructor's MasteringChemistry **Course ID** or click **Proceed to Self-Study Area** (if an independent self-study option is available for your textbook). Your instructor *may* also request that you enter a special Student ID for this course, either now or later. If so, be sure to enter this information EXACTLY as your professor has instructed.

Congratulations! You have completed registration and have enrolled in your MasteringChemistry course. **To access your course from now on:** Simply go to [www.masteringchemistry.com](http://www.masteringchemistry.com), select your textbook if prompted, and enter your login name and password.

### System Requirements & Support

- **To effectively use the resources on this website, check its system requirements:** Log in to [www.masteringchemistry.com](http://www.masteringchemistry.com) and click the "System requirements" link at the bottom of the home page. In particular, you may need to check that the latest version of the Flash player is available to your browser.
- **Customer Technical Support:** <http://www.masteringsupport.com>

The following is an example syllabus from the Troy Campus, Spring, 2008.

## General Chemistry II Lab Syllabus

CHM L143, Spring, 2008  
McCall Hall, Room 306

**Course Description:** This course will familiarize you with laboratory techniques/equipment common to chemistry laboratories and reinforce concepts learned in lecture.

**Lab Manual:** General Chemistry I Lab Manual. Custom published for the chemistry department by Thomson Learning: Mason, OH.

**Co-requisite:** CHM 1143. If you drop lecture, you must also drop lab.

**Sections:**

Section	Day	Time	Instructor
TOBA	Thursday	8:30-11:120	Sundberg
TRBA	Thursday	11:30-14:20	Sikabwe
TUBA	Thursday	14:30-17:20	Sikabwe

**Contact information:**

Office hours 09:00-11:00, 10:00-12:00 MWF and 14:30-16:00 MW

Email: sikabwe@troy.edu

**Laboratory Safety:** The chemistry lab can be a dangerous place if certain safety rules are not followed. In light of this we will require each student abides by certain safety policies and procedures when working in the chemistry lab. Failure to comply with these procedures will result in the student being asked to leave the laboratory and being assigned a "0" on the lab. You will be required to wear departmental approved safety goggles, long pants, and closed-toed shoes at all times when working in the lab. This means that on lab days you must plan ahead to assure you will not be in violation of laboratory dress-code.

**Pregnancy:** Women who become pregnant must either a) take an incomplete and drop the lab, or b) obtain a written statement from a doctor recommending that you be allowed to complete the course. We will work with you on this.

**Tentative Schedule**

Week of	Lab Title
Jan 7	<b>No Lab This Week</b>
Jan 14	VSEPR and Molecular Structure (Write Up Provided)
Jan 21	Exercises in Data Analysis Graphing, and Excel – Meet in 319 Wallace
Jan 28	Determination of the Absolute Zero of T
Feb 4	Determination Molar Mass by the Dumas Method
Feb 11	Reactivity of the Halogens
Feb 18	Molecular Mass Determination by Freezing Point in <i>t</i> -Butyl Alcohol

Feb 25	Synthesizing Alum and Observing Some Chemistry of Aluminum
mMar 3	A Colorimetric Determination of Aspirin in Commercial Preparations
Mar 10	<b>Spring Break, No lab this week</b>
Mar 17	Determining an Equilibrium Constant Using Spectroscopy
Mar 24	Studying Chemical Equilibrium and Applying Le Chatelier's Principle
Mar 31	Determining the Dissociation Constant of a Weak Acid
Apr 7	Effects of Buffering, Resistance of a Solution to pH Change
Apr 14	Spontaneous Reaction and Reaction Reversal Demonstration
Apr 21	Lab Final

**Grading:**      A: 90-100;                      B: 80-89;                      C: 70-79;                      D, 60-69

80%    Lab reports

20%    Pre-lab assignments, quizzes and Final Exam

**One lab grade will be dropped.** If you miss more than one lab, a zero will be recorded for that lab grade. There is only one laboratory session for each experiment, and make up labs cannot be scheduled. All the labs meet on Tuesdays. You can attend another laboratory session on the day an experiment is conducted, but experiments cannot be conducted on alternate days. The laboratory facilities are simply not available.

Pre-lab assignments are due when you walk in the door; they will not be accepted after that. The formal lab reports and especially the graphical portions of the reports should be carefully prepared. They are due at the beginning of class the following week. Work submitted within one week of its due date will have its grade reduced by 10 %. That amount to a full letter grade. Work will not be accepted later than one week past its due date. That is a failing grade for that lab.

**Resources:** Computers are available in Smith Hall and in the library. The Natural Science Center has tutors who can help with homework, etc.

**Disabilities:** Troy University supports Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, which insure that postsecondary students with disabilities have equal access to all academic programs, physical access to all buildings, facilities and events, and are not discriminated against on the basis of disability. Eligible students, with appropriate documentation, will be provided equal opportunity to demonstrate their academic skills and potential through the provision of academic adaptations and reasonable accommodations. Further information, including appropriate contact information, can be found at the link for Troy University's Office of Human Resources at <http://www.troy.edu/humanresources/ADAPolicy2003.htm>

**Posting of Grades:** Grade information will not be provided over the phone or via e-mail. If you have any questions or concerns about your grade please feel free to come by in person and we will discuss your grade in detail with you.