CHM 1025 INTRODUCTION TO CHEMISTRY SPRING 2013

Section: 3925	Period: TR 4th	Instructor: Melanie Veige	Office Hours: CLB C130B TR 5th, W 4th
		TA: Allison Garnsey	CLC M 7th, 8th; W 8th
		TA: Jared Reynolds	CLC M 4th; W 2nd; ONLINE T 9th/10th

Contact instructor through e-Learning ONLY, not to any other e-mail account. To e-mail in e-Learning, choose "mail", and direct the message to either "Instructor Role" or scroll down to find "Veige, Melanie (melveige)" as the recipient. ***E-mail messages sent to my chem.ufl.edu account will be deleted, unread.***

INFORMATION: CHM 1025 is a course designed to help students understand the basic concepts of chemistry and master the skills necessary to succeed in the mainstream general chemistry sequence, CHM 2045-2046. To succeed in this course, the student must spend adequate time studying the available materials, including the textbook and the Mastering Chemistry homework. The course will meet twice a week for live discussion and feedback. Attendance is strongly encouraged but not required.

Chemistry is very much a "learn by understanding" subject. You must work long and hard to do well. You should read the textbook and do the Mastering Chemistry homework sets until you understand. You should also work extra problems to test your understanding. The more problems you do, the more likely you are to succeed. Working/studying in small groups can also be very helpful for the study of Chemistry.

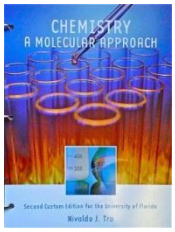
PREREQUISITES: High school algebra II or MAC 1147 or the equivalent. Students whose math-algebra background is weak should pass MAC 1147 with a minimum grade of C before enrolling in CHM 1025.

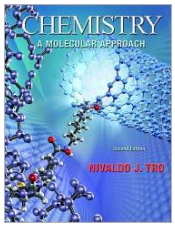
You must earn a grade of C or better to progress to CHM 2045.

REQUIRED:

1. textbook
2. clicker (RF remote)
3. MasteringChemistry access code
4. calculator (nonprogrammable)
5. e-Learning

TEXTBOOK: "Chemistry: A Molecular Approach", N. Tro, 2nd ed., Pearson. The text may be purchased as a loose-leaf packet (containing select chapters, the picture on the left below) or as the hardcover (depicted on the right). Mastering Chemistry e-Homework access code is in the packet, along with a clicker and copies of most of the worksheets. A copy of the text is on reserve at the Marston Science Library.





MASTERING CHEMISTRY: www.masteringchemistry.com

Course ID: **MCVEIGE13560**

The 934 points available on MC are worth 5% of your course grade.

There are 28 assignments, each 1-2 h in length, based on topics currently being covered in class. Assignments are due Wednesdays and Sundays at 11:59 pm, and after each is due a new assignment becomes available for you to work on. Make sure you do the assignments in order of their due date. You can repeat questions 6 times in order to master them. You may purchase an access code for MasteringChemistry at the bookstore or at the MasteringChemistry website.

Due dates are firm for full credit. ***There will be no extensions***. You may do an assignment (except the last assignment) after its due date, with a penalty of 10% per day late. All assignments must be completed by April 30th at 11:59 pm; access will be denied after this time.

E-LEARNING: http://lss.at.ufl.edu

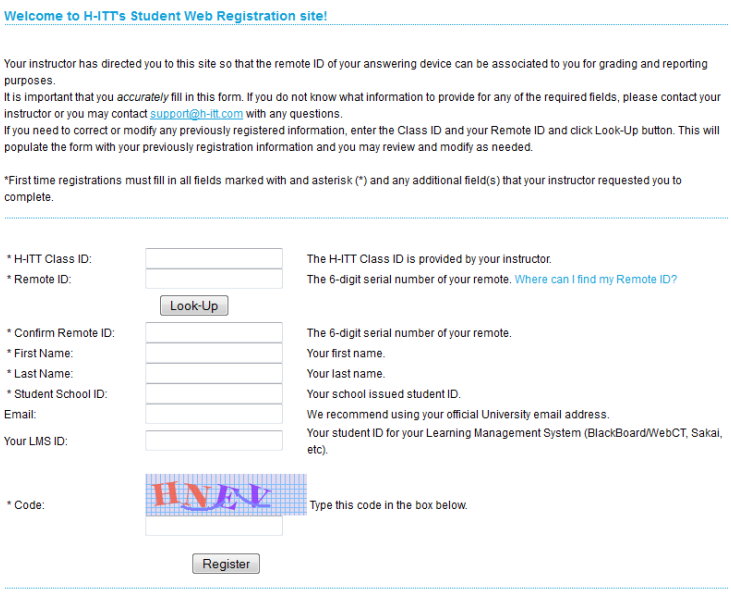
Navigate to the website, click on "e-Learning Login":

Enter your GatorLink username and password when prompted. You MUST use your GatorLink username and password. If you have problems, contact the Help Desk at 392-HELP or go to 520 CSE. It is your responsibility to check e-Learning frequently for updates and information.

WEEKLY QUIZZES THROUGH E-LEARNING: Nearly every weekend there will be a 5-question quiz delivered through e-Learning via Assessments. The quizzes are worth 5% of your grade.

IN-CLASS CLICKER QUIZZES: There may be daily in-class quizzes via clicker questions. You will need a HITT-RF remote control (clicker). They are available at the UF bookstore and are bundled with the Tro packet.

To register your remote, navigate to www.h-itt.com and click on "Web Registration" in the top right corner. You'll see a registration screen that looks like this:



Welcome to H-ITT's Student Web Registration site!

Your instructor has directed you to this site so that the remote ID of your answering device can be associated to you for grading and reporting purposes.
It is important that you *accurately* fill in this form. If you do not know what information to provide for any of the required fields, please contact your instructor or you may contact support@h-itt.com with any questions.
If you need to correct or modify any previously registered information, enter the Class ID and your Remote ID and click Look-Up button. This will populate the form with your previously registration information and you may review and modify as needed.

*First time registrations must fill in all fields marked with and asterisk (*) and any additional field(s) that your instructor requested you to complete.

* H-ITT Class ID: — The H-ITT Class ID is provided by your instructor.
* Remote ID: — The 6-digit serial number of your remote. Where can I find my Remote ID?
Look-Up
* Confirm Remote ID: — The 6-digit serial number of your remote.
* First Name: — Your first name.
* Last Name: — Your last name.
* Student School ID: — Your school issued student ID.
Email: — We recommend using your official University email address.
Your LMS ID: — Your student ID for your Learning Management System (BlackBoard/WebCT, Sakai, etc).
* Code: — Type this code in the box below.
Register

Fill in ***ALL*** fields. The H-ITT Class ID is: **Veige_UF_CHM1025_Spring_2013_3925**

The Remote ID is a 6-digit number usually found on the back of your remote.

For Student School ID enter your student number. For LMS ID enter your gatorlink username.

Each correct response throughout the semester receives full credit (2/2 points), and incorrect responses receive partial (0.5/2) credit. The total points possible will be ~85% of the actual points available. For example, if 100 questions are posed during the semester, and you answer 85 of them correctly, and miss the remaining 15 questions due to illness, you would still receive the full 7%! It is not possible, however, to receive more than the 7% allotted to clicker questions.

It is your responsibility to ensure your clicker works. You will not receive points later because of a faulty clicker or dead batteries. You MAY NOT write down your answers and turn them in manually. Bring your clicker with you to each class. You must have your clicker registered by Friday, January 18th.

WORKSHEETS: Each worksheet contains a set of questions/problems related to the material studied in a particular class period. There are 27 such worksheets in the Tro packet, and the worksheets are also available for download through e-Learning, under Resources. There are *three extra worksheets* found only in e-Learning: #13b, #18b, and "Thermochemistry". "Thermochemistry" is *mandatory and has an assigned due date:* March 21, at the beginning of class.

Worksheets will be collected ~20 times throughout the semester, at random, unannounced, with the exception of the Thermochemistry worksheet. Worksheets must be turned in at the **beginning** of class to receive full credit. Each worksheet is worth 2 points. Worksheets are graded as full (2 points), half (1 point) or no (0 points) credit based upon the level of

completion/effort, for a maximum of 30 points (of ~40 available points). Answers to problems in the worksheets will be released (via e-Learning) after collection in class.

EXAMS: Four cumulative progress exams (on the dates shown on the Master Calendar) and a cumulative final exam will be administered. Your lowest progress exam score (NOT the final exam) will be dropped. All exams will have ~25 multiple choice questions. Any material done prior to the exam date is eligible to be on the exam. ***Makeup progress exams will be given only for well-documented, UF-approved reasons***. https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx Conflict exams may be given for those students with another assembly exam at the same time in a course with a higher number than ours. ***It is your responsibility to identify yourself as requiring accommodation at least one full week prior to the exam***. If you do not do so, you may not be permitted to take an earlier exam. If you miss a progress exam for any other reason, that will be the score that is dropped.

Scantron errors are non-negotiable. This includes Form Code errors, registry errors, and name and UF ID errors.

Students may not use graphing or programmable calculators on exams. You may use scientific calculators with exponent capability. No other device may be used as a calculator (cell phones, iPods, etc.). No spare calculators will be available for use during exams, nor will spare batteries, so you may want to bring a backup calculator with you.

HONOR SYSTEM: All exams are given under the Honor System. Any student caught cheating will receive a failing grade in the course. See UF policy on academic honesty: http://www.dso.ufl.edu/judicial/academic.php

HELP: As soon as you encounter difficulties, get help!! Small problems rapidly become large problems. You have several options for assistance:

1. My office hours
2. Chemistry Learning Center (CLC), in Flint Hall rooms 257-258. The CLC is staffed by chemistry graduate students who offer FREE help from periods 2-9 M-F.
3. The Teaching Center offers walk-in help, help by appointment, and their website offers video recorded solutions to old 1025 exams: http://www.teachingcenter.ufl.edu/
4. Your classmates – form a study group!

COUNSELING INFORMATION: http://www.chem.ufl.edu/~itl/counseling.html

DISABILITY RESOURCES: http://www.chem.ufl.edu/~itl/disabilities.html

Disability resources students *must see me the first week of class*. Students requesting classroom and exam accommodations must first register with the Dean of Students Office, who will provide documentation to the student to provide the instructor when requesting accommodation.

SCORING: Your grade for the term will be determined according to the following:

Progress exams (best 3 of 4 @ 20% each)	60 %
Mastering Chemistry Homework	5 %
Worksheets	3 %
Clicker Questions	7 %
Weekly Quizzes through e-Learning	5 %
Cumulative Final Exam	20 %
TOTAL	**100 %**

GRADING: Grades are not curved. The following grade cutoffs are fixed:

A 87 %	B- 74	D+ 60
A- 84	C+ 70	D 56
B+ 80	C 67	D- 54
B 77	C- 64	E <54

MASTERINGCHEMISTRY ASSIGNMENT LIST:

Assignment	Date Opens	Date Due	Time	Points
Assignment #1: Introduction to MasteringChemistry and Math Review	01/03/13 at 11:59pm	01/16/13 at 11:59pm	128 min	20
Assignment #2: Chapter 1: 1.1-1.5 Classification of Matter	01/06/13 at 11:59pm	01/16/13 at 11:59pm	50	50
Assignment #3: Chapter 1: 1.6-1.8 Units and Problem Solving	01/09/13 at 11:59pm	01/20/13 at 11:59pm	137	64
Assignment #4: Chapter 2: 2.1-2.7 Atomic Structure and the Periodic Table	01/13/13 at 11:59pm	01/23/13 at 11:59pm	149	54
Assignment #5: Chapter 2: 2.8-2.9 Atomic Mass and Molar Mass	01/16/13 at 11:59pm	01/27/13 at 11:59pm	126	41
Assignment #6: Chapter 3: 3.1-3.5 Ionic Compounds	01/20/13 at 11:59pm	01/30/13 at 11:59pm	90	30
Assignment #7: Chapter 3: 3.6 Molecular Compounds and Acids	01/23/13 at 11:59pm	02/03/13 at 11:59pm	38	17
Assignment #8: Chapter 3: 3.7-3.8 Moles, Composition	01/27/13 at 11:59pm	02/06/13 at 11:59pm	87	31
Assignment #9: Chapter 3: 3.9 Chemical Formulas from Experimental Data	01/30/13 at 11:59pm	02/10/13 at 11:59pm	75	18
Assignment #10: Chapter 3: 3.10-3.11 Chemical Equations and Organic Compounds	02/03/13 at 11:59pm	02/13/13 at 11:59pm	99	31
Assignment #11: Chapter 4: 4.2-4.3 Stoichiometry, Limiting Reactant, % Yield	02/06/13 at 11:59pm	02/17/13 at 11:59pm	134	22
Assignment #12: Chapter 4: 4.4-4.6 Solution Stoichiometry, Precipitation Reactions	02/10/13 at 11:59pm	02/20/13 at 11:59pm	147	40

Assignment #13: Chapter 4: 4.7-4.8 Equation Types and Acid-Base Reactions	02/13/13 at 11:59am	02/24/13 at 11:59pm	144	35
Assignment #14: Chapter 4: 4.9 Redox Reactions	02/17/13 at 11:59pm	02/27/13 at 11:59pm	57	19
Assignment #15: Chapter 6: 6.2-6.4 First Law; Heat and Work	02/20/13 at 11:59pm	03/10/13 at 11:59pm	102	36
Assignment #16: Chapter 6: 6.5-6.7 Calorimetry	02/24/13 at 11:59pm	03/13/13 at 11:59pm	135	48
Assignment #17: Chapter 6: 6.8 Hess's Law	03/06/13 at 11:59pm	03/17/13 at 11:59pm	58	19
Assignment #18: Chapter 6: 6.9 Enthapies of Reaction and Standard Enthalpies of Formation	03/10/13 at 11:59pm	03/20/13 at 11:59pm	128	37
Assignment #19: Chapter 8: 7.5-7.6; 8.2-8.5 Quantum Numbers, Electron Configuration	03/13/13 at 11:59pm	03/24/13 at 11:59pm	140	52
Assignment #20: Chapter 8: 8.6-8.7 Electron Configuration of Ions, Atomic and Ionic Radii	03/17/13 at 11:59pm	03/27/13 at 11:59pm	136	57
Assignment #21: Chapter 9: 9.2-9.3 Bonding, Lewis Dots	03/20/13 at 11:59pm	03/31/13 at 11:59pm	36	15
Assignment #22: Chapter 9: 9.4 Ionic Bonding and Lattice Energies	03/24/13 at 11:59pm	04/03/13 at 11:59pm	67	24
Assignment #23: Chapter 9: 9.5-9.7 Lewis Structures and Electronegativity	03/27/13 at 11:59pm	04/07/13 at 11:59pm	63	17
Assignment #24: Chapter 9: 9.5-9.7, 9.9 Lewis Structures and Electronegativity, Exceptions to Octet Rule	03/31/13 at 11:59pm	04/10/13 at 11:59pm	124	25
Assignment #25: Chapter 9: 9.8 Resonance and Formal Charge	04/03/13 at 11:59pm	04/14/13 at 11:59pm	117	30
Assignment #26: Chapter 9: 9.10 Bond Energies and Bond Lengths	04/07/13 at 11:59pm	04/17/13 at 11:59pm	77	27
Assignment #27: Chapter 10: 10.2-10.5 VSEPR	04/10/13 at 11:59pm	04/21/13 at 11:59pm	141	31
Assignment #28: Chapter 10: 10.2-10.5 VSEPR Part II	04/14/13 at 11:59pm	04/24/13 at 11:59pm	73	44

TENTATIVE LECTURE SCHEDULE:

EXAM OTHER DEADLINE
RELEVANT WORKSHEETS (TENTATIVE) (##) HOLIDAY

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Jan. 6	7	8 Intro, Syllabus	9	10 (1) 1.1-5 Classification of Matter	11	12
13	14	15 (2) 1.6-8 Units and Problem Solving	16	17 (3) 2.1-7 Atomic Structure & Periodic Table	18 Clicker registration deadline	19
20	21	22 (4) 2.8-9 Atomic Mass & Molar Mass	23	24 3.16 Nomenclature I	25	26
27	28	29 (5) 3.1-6 Nomenclature II	30 EXAM 1	31 (6) 3.7-3.8 Moles & Comp. of Compounds	Feb. 1	2
3	4	5 (7&8) 3.9 Empirical and Molecular Formulas	6	7 (9) 3.10-11 Balanced Equations & Organic Cmpds	8	9
10	11	12 (10&11) 4.2-3 Limiting Reagent and % Yield	13 EXAM 2	14 (12) 4.4-8 Solution Stoichiometry, Precipitation Reactions	15	16
17	18	19 (13) 4.4-8 Acid/Base Reactions	20	21 (13b) 4.9 Redox Reactions	22	23
24	25	26 (14) 6.2-4 First Law; Heat & Work	27	28 (15&16) 6.5-7 Calorimetry	Mar. 1	2
3	4	5	6	7	8	9
10	11	12 (17) 6.8 Hess's Law	13	14 (18) 6.9 Standard Enthalpy Changes	15	16
17	18	19 8.2-4 Electron Configuration, Atomic Size	20 EXAM 3	21 (18b) 8.6-7 Electron Configuration of Ions, Ionic Radius **Thermochemistry worksheet due**	22	23
24	25	26 (19) 9.2-4 Bonding, Ionic Bonding	27	28 (20) 9.4 Lattice Energies	29	30
31	Apr. 1	2 (21) 9.5-7 Lewis Structures, Electronegativity	3	4 9.5-7 Lewis Structures, Electronegativity	5	6
7	8	9 (22&23) 9.8-9 Resonance and Formal Charge	10 EXAM 4	11 (24) 9.10 Bond Energies and Bond Lengths	12	13
14	15	16 (25) 10.2-10.5 VSEPR	17	18 (26) 10.2-10.5 VSEPR	19	20
21	22	23 (27) REVIEW/LAST DAY OF CLASS	24	25	26	27
28	29	30	May 1	2	3	4