CHM 2046L - SYLLABUS UNIVERSITY OF FLORIDA SPRING, 2012

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<u>To the student:</u> READ AND RETAIN THIS SYLLABUS! It contains details pertinent to CHM 2046L. YOU ARE RESPONSIBLE FOR THIS INFORMATION! READ IT CAREFULLY! Ignorance is <u>NOT</u> an excuse!

<u>Students With Disabilities:</u> Students needing special accommodations in CHM 2046L must register with the Disability Resource Center (Reid Hall room 001) to get documentation for Dr. Horvath to obtain the accommodations.

Corequisite: CHM 2046L is to be taken with CHM 2046 or CHM 2051 (Honors).

Prerequisite: Before enrolling in CHM 2046L (and CHM 2046) both CHM 2045 and CHM 2045L must have been passed.

<u>E Learning (EL on Sakai)</u>: EL (Sakai) will be used for grade maintenance, message-posting, etc. Login to EL using your GatorLink ID and password at: <u>Lss.at.ufl.edu</u> <u>IT IS YOUR RESPONSIBILITY TO CHECK EL REGULARLY FOR INFORMATION & MESSAGES REGARDING CHM 2046L!</u>

<u>Beginning the Term (Read Carefully!):</u> CHM 2046L begins T:1/17/12 - Sat:1/21/12 -- see below! On these days all sections check in and get going with Assignment 1 in the CHM 2046L Lab Manual. <u>TO GET STARTED PROPERLY ANSWER Q 1.1 ON PAGE 1-9 IN ASSIGNMENT 1 BEFORE YOU ARRIVE FOR CHECK IN!</u>

ATTEND YOUR FIRST SCHEDULED LAB SESSION (LS)! YOUR 46L SPACE CAN BE LOST BY NON-ATTENDANCE!

<u>During the Term (Read Carefully!)</u>: There are no LS's on M:1/16/12 which is a holiday in honor of Dr. Martin Luther King's Birthday. The missed LS's for M: 1/16/12 will be "made up" on Sat:1/21/12 at regular Lab time. Also note:

There are no LS's M:3/5/12 - F:3/9/12 (Spring Break). The last (13th) LS for 46L is during M:4/16/12 - F:4/20/12.

This schedule gives each 2046L section its full allotment of 13 LS's for the term.

Required Equipment: Each listed item is to be in your possession at the <u>first</u> LS and will be used in all other LS's. See that you have these items!

- 1. CHM 2046L Lab Manual. "Chemistry for Laboratory II" by Horvath, <u>THIRD</u> edition. Purchase at UF bookstore or other local bookstore. New manual required if you are repeating this course.
- 2. Chem. Dept. approved eye protection. UVEX S2500-S2530 plastic safety glasses (available at UF or Florida Bookstore) or full safety goggles <u>must</u> be used as these can cover prescription glasses. <u>NO</u> EXCEPTIONS! Also, avoid the use of contact lenses in Lab.
- 3. Towel and sponge (for clean up).
- 4. Ball pen (none rasable!). All entries in the Lab Manual must be made in indelible ink. NO pencil! EVER!
- 5. "Sharpie" permanent felt-tip glass marking pen.
- 6. Lab apron (optional). You are urged to protect your person and clothing by wearing an apron in Lab.

<u>Safety & Clean-Up:</u> See GENERAL CHEMISTRY LABORATORY REGULATIONS (GCLR). Students may <u>not</u> work in the lab without complete compliance with these rules! (You will receive a copy of the GCLR in your first LS.)

- 1. EYE PROTECTION must be worn on entering, working in, & leaving lab. NO EXCEPTIONS! (See GCLR.)
- 2. Complete lace-up shoes (not sandals, thongs, etc.) are required lab footwear. (See GCLR.)
- 3. Long hair is to be appropriately constrained. Hair is very flammable!
- 4. Long, loose-fitting pants are required apparel for both males and females in Lab. (See GCLR.)
- 5. No visitors or browsers are permitted in Lab.
- 6. Note location of fire extinguisher, overhead shower, and eyewash station. Use safety devices if necessary!
- 7. NO EATING, DRINKING, OR SMOKING PERMITTED IN THE LAB AT ANY TIME.
- 8. Use only required amounts of chemical materials. <u>NEVER</u> return unused portions to original container! Use materials <u>ONLY</u> from your assigned Lab Area! When necessary go to the Stockwindow to get additional supplies of materials <u>NOT</u> to a different Lab Area!
- 9. <u>CLEAN UP ANY MESS YOU MAKE</u>. Discard waste materials appropriately consult instructor if you have questions. <u>CLEAN YOUR WORK AREA AT CONCLUSION OF EACH LAB SESSION</u>. PENALTIES <u>WILL</u> BE APPLIED FOR FAIL URE TO CLEAN UP PROPERLY! (See "HOUS EKEE PING" in GCLR.)
- 10. Do not leave lit burners unattended. Extinguish burner after use.
- 11. Perform <u>NO</u> unauthorized experiments!

<u>Cell Phone Use:</u> Cell phones must be turned off during Lab. Students using cell phones during Lab will lose 10 pts from their Subjective Grade (SG) per call up to three calls at which the SG becomes zero! But, if you are to receive an emergency call, tell your TA about this possibility. And, if the call comes, step out of Lab while you converse.

Attendance: THE STUDENT IS ALWAYS EXPECTED TO BE ON TIME FOR EACH SCHEDULED LS AND TO WORK THE ENTIRE LS UNTIL ALL WORK ASSIGNED FOR THE TERM HAS BEEN COMPLETED. Note that there is ample time during the scheduled LS's to do all required as well as extra credit work including time for necessary repeat work (excluding unknown analysis - unknown analysis may be repeated only by approval of Dr. Horvath).

Also note that work in the lab is permitted ONLY during the scheduled periods for the LS in which the student is enrolled. (Authorized make up is the only exception - see below at "Makeup Lab".) Moreover, the student may not begin work before the beginning of the first period, and the student is to finish work, clean up, and leave the lab by the end of the second period. Clean up should be done during the final 15 minutes of the third period.

NOTE: REGARDLESS of UF Time-Clock, pers 11-E2 LS's END AT 9:15 pm. Thus, EACH 46L SECT HAS A 3 hour LS.

Preparation: Careful preparation prior to each Assignment is required. This means prereading the entire Assignment with emphasis on understanding the Discussion in the Lab Manual. Almost all 46L work is to be done in Lab. Exceptions are the "Problems" (P's) including preparation of Schemes for unknown analysis. "Problems" and "Unknown Schemes" are to be done as homework. Note: Solutions to all P's except: P1.1, 1.2, Unknown Schemes, and P's for Assignments 10 and 11, will be posted so that you can check your own "Problems".

<u>Deadlines:</u> Experimental work for Assignment 1* should be completed during the first LS after check in. Thereafter, beginning with Assignment 2, all work is "self pace" (EXCEPT FOR UNKNOWN ANALYSIS!). Nonetheless, you must work as expeditiously as possible in order to deal successfully with all work called for in CHM 2046L. (Your 46L TA will provide indication of the approximate number of LSs required to complete each Assignment.)

★NOTE: The "Experiment" for Assignment 1 may be done in teams of two. This is permitted because many solutions must be prepared for this work. But, after Assignment 1, <u>NO</u> teamwork in 46L is permitted! <u>NO EXCEPTIONS!!</u>

The Experiment (E) and Problems (P) for any Assignment (A) is due at the start of the LS after completion of the "E for the "A" in question". For instance, since the "E" for A-1 should be completed during LS1, the E and P for A-1 should be turned in for final grading at any time up to the start of LS2. Similarly, if the "E" for A-2 is completed at some time during LS4, the E and P for A-2 are to be turned in no later than the start of LS5. Late work will be devalued 10% per day late up to one week late. Zero credit for any work later than one week! (To turn in work remove E pages at the perforation in the Lab Manual. Staple E and P pages together in sequence and give to your TA. When graded work is returned, it is to be repaginated into your Lab Manual contained in a 3-ring binder.) NOTE: Work may be turned in at the Lab Stockwindow (but NOT during the last LS). But, it is strongly advised that all work be turned in directly to your TA. IF YOU MISS LAB YOU ARE STILL OBLIGED TO TURN IN WORK "ON TIME"! NOTE: Work is NOT to be turned in via Chem. Dept. mail - NO EXCEPTIONS! Ask your TA for instructions on turning in work outside of Lab.

Problem solutions are posted on the 46L bulletin boards (outside east wall of CLB C130 & next to LEI 224).

<u>Each (A) is to be done in the sequence contained in the Lab Manual.</u> (*See "Exception" below.) Required work is (A)s 1-9 and corresponding Unknown Analysis. Acceptable work done for (A)s 10 and 11 earns extra credit (XC).

*EXCEPTION: Unknown analysis may NOT be carried beyond the LS in which the analysis was begun. (Each unknown analysis MUST be completed, and the UNKNOWN REPORT turned in AT THE STOCKWINDOW, during the LS in which the analysis was begun.) Thus, on occasion, it can be wise to postpone starting an unknown analysis until the next LS. This will insure having the full time for the analysis. In such a case, on the day of postponement the student will instead continue to the next (A). But, note that POSTPONEMENT OF UNKNOWN ANALYSIS IS SUBJECT TO THIS PENALTY: STARTING WORK in (A)-6 prior to 2A/B ANALYSIS COSTS 25 POINTS to get 2A/B UNKNOWNS. STARTING WORK in (A)-8 prior to 5A/B ANALYSIS COSTS 25 POINTS to get 5A/B UNKNOWNS. NO EXCEPTIONS INCLUDING MAKEUPS! STOCKROOM PERSONNEL WILL CHECK LAB MANUALS TO ENSURE STUDENT COMPLIANCE!

Also: <u>FOR UNKNOWN ANALYSIS YOU ARE STRICTLY "ON YOUR OWN".</u> Your TA is to offer *NO* assistance on doing unknown analysis. Stockroom personnel <u>exclusively</u> write start and stop times on the UNKNOWN REPORT.

Grading (subject to change!). Values indicated are maximum earnable points:

Assign(A).	Exp.	Probs.	Scheme*	Unknown (A/	B) TIME LIMIT
One	25	10			
Two	50	5	20 (P 2.9)	100/100	90 min . for the pair
Three	30	5			
Four	25	5			
Five		5	20(P 5.11)	100#/100	120 min. for the pair
Six	30	5			
Seven	25	5			
Eight	20	5			
Nine		5	20(P 9.6)	100#/100	120 m in. for the pair
Ten*	25(XC)	5(XC)	10(XC)(P 10.5)	50(XC)**	45 min.
Eleven*		5(XC)	15(XC) (P 11.5)	60(XC)	90 min.
Totals:	230	60	85	710	Note: 2-pt. penalty per minute late!

★ TA-approved, "non-xeroxed" Scheme of Analysis <u>must</u> be presented at Stockwindow to obtain unknowns 2A/B, 5A/B, & 9A/B. 2A/B, 5A/B, & 9A/B samples issued <u>without approved Scheme will be assessed a 25 pt penalty!</u>

SEE SAMPLE "UNKNOWN REPORTS" posted in Lab. "Unknown A" is in the sample package with the numerical label.

*Work in (A)'s 10 & 11 is for extra credit (XC). **Report <u>only</u> cations (sample contains 3) for (A) 10 Unknown. For (A) 10 unknown: 1 error = ½-credit (25 pts); 2 errors = zero credit; 3 (or more) errors = -10 pts. *DON'T GUESS!*

*Unknown samples 5A and 9A are guaranteed pure salts (i.e., samples 5A and 9A are not mixtures). But, don't forget the possibility of "alums". Also beware of "oxides" (for 5A and 9A) and "sulfides" (for 9A).

NOTE on UNKNOWN GRADING: EACH ERROR ("omission" – an ion in the sample is not reported; or, "commission" – a reported ion is not in the sample) COUNTS AGAINST YOU. Also, regardless of corrections, 6 or more errors = ZERO.

- YOU <u>MUST</u> DO THE LAB WORK REQUIRED BY CHM 2046L TO BE SUCCESSFUL. SO NOTE THE "OK" CHECKPOINTS IN THE LAB MANUAL. NO WORK MAY PROCEED PAST AN "OK" WITHOUT TA APPROVAL <u>THUS, YOU MUST PRESENT YOUR LAB MANUAL TO YOUR TA FOR INSPECTION AT THE BEGINNING AND END OF EACH LS. NONCOMPLIANCE WITH THIS POLICY RESULTS IN ZERO CREDIT FOR ALL NON-"OK'd" WORK.</u>
- FORGING TA's "OK" or "DRY-LABBING" is CHEATING! PENALTY IS AUTOMATIC GRADE OF "E".
- SEVERE PENALTIES ARE APPLIED FOR COPYING WORK FROM OTHER STUDENTS. ALL PARTIES INVOLVED ARE PENALIZED. 1st violation: ZERO CREDIT FOR COPIED WORK & 100-POINT ADDITIONAL PENALTY. 2nd violation: GRADE OF "E".
- POSSESSION OF LABORATORY WORK FROM OTHER STUDENTS RESULTS IN AUTOMATIC GRADE OF "E". NO EXCEPTIONS. BOOKBAGS, NOTEBOOKS, BACK PACKS, etc., WILL BE INSPECTED REGARDING THIS ISSUE. CALCULATORS ARE NOT PERMITTED IN CHM 2046L FOLLOWING (A) 3.
- LAB MATERIALS and EQUIPMENT MAY NOT BE REMOVED FROM THE LAB FOR ANY REASON (other than to submit unknown samples to Dr. Horvath for regrade). NO EXCEPTIONS. MINIMUM PENALTY IS GRADE OF "E".
- •SUBMISSION OF CONTAMINATED UNKNOWN SAMPLE FOR REGRADE IS AN ACT OF ACADEMIC DISHONESTY.

 <u>MINIMUM PENALTY IS GRADE OF "E".</u>
- More Information on Student Honesty: UF's policy on honesty and cheating can be seen at the following web site: www.chem.ufl.edu~itl/honor.html
 All students should visit this site and read the information which it offers.

<u>Subjective Grade (SG) by TA:</u> The SG is a 50-point max character-assessment grade which depends mainly on factors such as preparedness, diligence, improvement, neatness, and demonstrated interest in the work. The SG is separate from Assignment and Unknown grades. If you do what is expected of you as a student in 2046L – but no more – your demonstration of character is average and your SG will be ~30-35 pts. <u>YOU MUST EXCEL to be EXCELLENT!</u>

CHM 2046L Course/TA Evaluation: This eval will be conducted AT THE START of LS 12. All students are to participate!

<u>Checkout & Last (13th) LS:</u> Students may work during the first 90 minutes (absolute maximum!) of LS 13. NOTE THAT IF YOU ARE DOING UNKNOWN ANALYSIS IN LS 13, UNKNOWN SAMPLES WILL <u>NOT</u> BE ISSUED AFTER THE FIRST 30 MINUTES OF THE LS. <u>NO</u> EXCEPTIONS. At the 90-minute mark lab work will cease and students will clean up and check out. <u>The following paragraph also applies to checkout. READ IT!</u>

All students checked into a 46L lab locker must check out! So note, if you leave 46L before the end of the term by drop, withdrawal, or "I" grade, you must still check out. If you do not, the lab staff will check out your locker and you <u>WILL</u> be billed for all equipment which must be replaced. <u>Students completing 46L must check out in LS 13.</u>

<u>Final Exam</u>: The CHM 2046L Final Exam is a minimum 120-pt exam. The exam is M:4/30/12, from 12:30 - 2:30 pm (Exam group "30 C"), at a location to be announced. If you have a conflict with this exam you must see Dr. Horvath <u>in person to arrange a makeup</u>. Qs and Ps on the exam will relate to understanding work done in Assignments 1-9. Extra credit (XC) can also be earned. <u>Note:</u> <u>A solution key to a previous CHM 2046L Final is posted on Sakai.</u>

<u>Course Grade</u>: The CHM 2046L grade will be based on total points earned (<u>not %'s – IGNORE "OUT OF" VALUES IN SAKAI</u>) including XC points (see below). Note that <u>without XC</u> work in A10 & A11 the following point totals can be earned: 915 (Exps., Probs. Schemes, Unknowns for Assignments 1-9) + 50 (max SG) + 120 (min. for Final) = 1085 The following grade scale then <u>rigidly</u> applies:

A: 900 or up B+: 850-874 B-: 800-824 C: 700-749 D+: 650-674 D-: 550-599 A-: 875-899 B: 825-849 C+: 750-799 C-: 675-699 D: 600-649 E: below 550

I Grade: An I grade can be issued only if the requesting student meets with each of the following requirements:

- (i) At least 50 % of the course work (this means thru 5 A/B unknown analysis) has been successfully completed.
- (ii) Student is passing (grade \geq D-) at the time of request.

(iii) Student has legitimate reason for not completing course (e.g., serious illness, accident, etc.).

A student receiving an "I" must still check out. "I" grades must be discussed with Dr. Horvath. NO exceptions.

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<u>Makeup Lab:</u> A student missing an LS for <u>legitimate</u> cause (excusable absence) may request a makeup lab. The student initiates the process by obtaining a Lab Makeup Form at the Lab Stockwindow and by following the instructions on the Makeup Form. <u>Note:</u>

- A MAKEUP LAB MUST BE SCHEDULED IMMEDIATELY ON RETURN TO 2046L AFTER AN EXCUSED ABSENCE.

 FAILURE TO DO THIS WITHIN ONE WEEK AFTER RETURNING TO 2046L RESULTS IN NO MAKEUP GRANT!
- All makeups will be scheduled solely at the discretion of Ms. Donna Turner, the Lab Mgr. TAs may <u>NOT</u> schedule makeups. Makeup MUST be done at the date, period, and work space designated on the Makeup Form.

 <u>Noncompliance with this policy results in zero credit as a minimum penalty for work made up.</u>
- For questions on makeup scheduling ask the Lab Mgr. Do <u>NOT</u> contact Dr. Horvath about makeup <u>unless</u> absolutely necessary – and, <u>only in person!</u>
- One makeup max will be scheduled per week. NO EXCEPTIONS unless approved by Ms. Turner or Dr. Horvath.
- For each make up a Makeup Form must be approved by your regular Lab TA's signature. On completion of makeup, the Makeup Form and the make-up work must be turned in to your regular TA. Makeup work submitted for grading without the appropriately signed Makeup Form will NOT be accepted. Makeup work NOT OK'd by makeup TA will be treated as cheating! Penalty is "E" grade!
- Makeups are issued only to replace LSs missed for excusable absence. Each 2046L student is entitled to no more than 13 working LSs for the Spring Term <u>INCLUDING</u> makeup.

<u>UNKNOWN ANALYSIS & Makeup:</u> <u>Doing unknown analysis during a makeup lab requires that you print the name of your regular lab (TA) on the UNKNOWN REPORT right after "Instructor Initial".</u> This info is necessary in order to return the graded Unknown Report to you and your TA.

Assembly Exam & Makeup: Students with evening Lab (pers 11-E2) may take as sembly exams which begin at 8:20 p.m. Each such student is to request a makeup for the exam from the professor giving the exam -- but, if this request is not granted, the student must attend Lab on the day of the exam until 8:00 p.m. After two assembly exams, the student will be granted a full (3 hr) makeup LS. As necessary, a student needing makeup for a single assembly exam will be granted a half (90 mins) makeup LS. For questions on this ask at the Stockwindow. A STUDENT OPTING TO MISS LAB FOR AN EXAM RECEIVES A "ZERO" FOR THE MISSED WORK! NO EXCEPTIONS!

ATTENDANCE REMINDER & MAKEUP: Makeup space in 2046L is at a premium. Because of this vacated lab space will be used for makeup. So note that if you miss three consecutive LSs but still intend to return to 2046L it is <u>your</u> duty to contact the Lab Mgr (Ms. Turner) via email at: donnat@chem.ufl.edu in order to keep your space. <u>Failure to do this after missing three consecutive LSs results in loss of your space!</u>

Out-of-Class Help: Out-of-class help for all Gen Chem courses/students will be provided on a regular daily basis in the Chem istry Learning Center (CLC) which is FLI 257-258. (Do NOT eat, drink, or socialize in the CLC.) All Gen Chem TAs conduct their office periods in CLC. So, note your TA's office periods, and if you need out-of-class help but cannot contact your TA, you may request help from any 2046L TA who is on duty in the CLC. A help-schedule will be posted and help should be available M-R: pers 2-E1 and F: pers 2-8. But do check the help-schedule.

<u>Complaints/Conflicts</u>, <u>etc</u>: Should you encounter any difficulties with CHM 2046L (scheduling problems, questions on grading, etc.) which you cannot resolve with your 2046L TA, <u>please see in person</u>:

DR. JAMES C. HORVATH IN LEIGH 132.

<u>Dr. Horvath MUST be seen in person to resolve ALL issues (e.g., Qs on grades) regarding CHM 2046L. Attempted contact via email or telephone WILL BE IGNORED!</u> <u>THIS POLICY REMAINS IN EFFECT AFTER THE TERM ENDS!!</u>

HAVE A GREAT SEMESTER!