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LEI 132  
LEI 136

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

**Students With Disabilities:** Students needing special accommodations in CHM 2046L must register with the Disability Resource Center (001 Reid Hall) 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.

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

**Beginning the Term (Read Carefully!):** CHM 2046L begins M: 8/27/12 - F: 8/31/12. On these days all 46L sections check in and get going with Assignment 1 in the CHM 2046L Lab Manual. **TO GET STARTED PROPERLY ANSWER Q 1.1 ON PAGE 1-11 IN ASSIGNMENT 1 BEFORE YOU ARRIVE FOR CHECK IN.**

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

**During the Term (Read Carefully):** There are no regular LSs on: M: 9/3/12 (Labor Day); F: 11/9/12 (Homecoming); M: 11/12/12 (Veteran's Day); and, T: 11/19/12 - F: 11/23/12 (Turkey Days).

**Note:** M Sects in essence "make up" for Labor Day on M: 11/19/12 and for Veterans Day on M: 12/3/12.

**F Sects Makeup \*:** Sect. 6121 (F2-4) meets T:11/20/12 pers 2-4. Sect. 6124 (F5-7) meets T:11/20/12 pers 5-7. Sect. 6322 (F8-10) meets T:11/20/12 pers 8-10.

\*If you are an F student with a schedule that will not allow you to meet the above makeup arrangement you must contact the Stockroom Personnel to schedule an individual makeup (or makeups). See below at "Makeup Lab".

The above schedule gives each 2046L section the maximum allotment of 13 LSs for the term.

**Required Equipment:** Each listed item is to be in your possession at the first LS and will be used in all other LSs. See that you have these items.

1. CHM 2046L Lab Manual. "Chemistry for Laboratory II" by Horvath, THIRD 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 must be used as these can cover prescription glasses. NO EXCEPTIONS. Also, avoid the use of contact lenses in the lab.
3. Towel and sponge (for clean up).
4. Ball pen (nonerasable!). 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.

**Safety & Clean-Up:** See GENERAL CHEMISTRY LABORATORY REGULATIONS (GCLR). Students may not 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 the Lab. (See GCLR.)
5. No visitors or browsers are permitted in the Lab.
6. Note location of fire extinguisher, overhead shower, and eyewash station. Use safety devices as necessary.
7. NO EATING, DRINKING, OR SMOKING PERMITTED IN THE LAB AT ANY TIME.
8. Use only required amounts of chemicals. NEVER return unused portions to original container. Use supplies ONLY from your Lab Area. As necessary get additional supplies at Stockwindow – NOT another Area.
9. CLEAN UP ANY MESS YOU MAKE. Discard waste materials appropriately - consult instructor if you have questions. CLEAN YOUR WORK AREA AT CONCLUSION OF EACH LS. PENALTIES WILL BE APPLIED FOR FAILURE TO CLEAN UP PROPERLY! (See "HOUSEKEEPING" in GCLR.)
10. Do not leave lit burners unattended. Extinguish burner after use.
11. Perform NO unauthorized experiments!

**Cell Phone Use:** Turn OFF cell phones during Lab. Use of cell phone during Lab costs 10 pts from Subjective Grade (SG) per call up to three calls at which SG becomes zero. If you may receive an emergency call, tell your TA and, if the call comes, step out of Lab during the call.

**Attendance:** THE STUDENT IS EXPECTED TO BE ON TIME FOR EACH SCHEDULED LS AND WORK THE ENTIRE LS UNTIL ALL WORK ASSIGNED FOR THE TERM HAS BEEN COMPLETED. There is ample time during LSs to do all required as well as extra credit work including limited repeat work (excluding unknown analysis – unknown analysis may be repeated only by approval of Dr. Horvath).

**Work in Lab is permitted ONLY during the scheduled LS for which student is enrolled.** (Authorized makeup is the only exception -- see p. 3 at "Makeups".) Moreover, students may not work until their TA arrives and must finish work, CLEAN UP, and leave Lab by the end of the LS. Clean up during last 10 minutes of third period. (See GCLR.)

**NOTE: REGARDLESS OF UF SCHEDULE, pers 11-E2 LSs END AT 9:15 pm. Thus, ALL 46L SECTS HAVE 3 hour LSs.**

**Preparation:** Careful preparation prior to each Assignment is required. This means pre-reading the entire Assignment with emphasis on understanding the Discussion in the Lab Manual. Almost all 46L work is done in Lab. Exceptions are "Problems" (Ps) and preparation of Schemes for Unknown Analysis. Do "Problems" and "Unknown Schemes" as homework. **Note:** Solutions to all Ps except: P1.1, 1.2, Unknown Schemes, and Ps for Assignments 10 and 11, are posted so that you can check your own "Problems".

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

**Deadlines:** Experimental work for Assignment 1 (see \*) should be completed during LS 1 after check in. Thereafter, beginning with Assignment 2, all work is "self pace" (**EXCEPT FOR UNKNOWN ANALYSIS!**). Note that you must work as expeditiously as possible to be successful with all work for CHM 2046L. Your 46L TA (Teaching Assistant) will indicate the approximate number of LSs required to complete each Assignment.

\* 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, **NO** teamwork in 46L is permitted. **NO EXCEPTIONS!**

The Experiment (E) and Problems (P) for any Assignment (A) is due at the start of the LS after completion of E for A in question. For instance, since the E for A2 should be completed in three LSs, the E and P for A2 should be turned in for final grading at the start of LS 4. Similarly, if the E for A3 is completed at some time during LS 5, the E and P for A3 are to be turned in no later than the start of LS 6. 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 carefully 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 kept in a 3-ring binder.) **NOTE:** Work may be turned in at the Lab Stockwindow (but **NOT** during the last LS). But, you are strongly advised to turn in all work 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.

**Each A is to be done in the sequence contained in the Lab Manual.** (See "\* EXCEPTION" below.) Required work includes A's 2-9 and corresponding Unknown Analysis. Successful work done for A10 & A11 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 is 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 A6 prior to 2A/B ANALYSIS COSTS 25 POINTS to get 2A/B UNKNOWNNS. STARTING WORK in A8 prior to 5A/B ANALYSIS COSTS 25 POINTS to get 5A/B UNKNOWNNS. NO EXCEPTIONS INCLUDING MAKEUPS. STOCKROOM PERSONNEL WILL CHECK LAB MANUALS TO ENSURE STUDENT COMPLIANCE.**

**Note:** **For UNKNOWN ANALYSIS YOU ARE STRICTLY "ON YOUR OWN".** No one including your TA may offer assistance for unknown analysis. Stockroom personnel **exclusively** 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 min. 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 **must** be presented at Stockwindow to obtain unknowns 2A/B, 5A/B, & 9A/B. **2A/B, 5A/B, & 9A/B samples issued without approved Scheme will be assessed a 25 pt penalty.**

**"Unknown A" is contained in the sample package with the numerical label.**

\*\* 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, 9A, & 11A) and "sulfides" (for 9A & 11A).

\*\*\* Work in A's 10 & 11 is for extra credit (XC).

\*\*\*\* For A10 Unknown report **ONLY** cations (sample contains 3). For A10 Unknown: 1 error = 1/2-credit (25 pts); 2 errors = zero credit; 3 (or more) errors = -25 pts. **DON'T GUESS!**

**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 MUST 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 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.**

● **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. Also, CALCULATORS ARE NOT PERMITTED IN CHM 2046L FOLLOWING A3.

● **LAB SUPPLIES 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 or "SPIKED" UNKNOWN SAMPLE for REGRADE IS AN ACT OF ACADEMIC DISHONESTY. MINIMUM PENALTY IS GRADE OF "E".**

**More Information on Student Honesty:** UF's policy on honesty and cheating can be seen at the following web site: [www.chem.ufl.edu/~tl/honor.html](http://www.chem.ufl.edu/~tl/honor.html) All students should visit this site and read the information which it offers.

**Subjective Grade (SG) by TA:** 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. **YOU MUST EXCEL to be EXCELLENT!**

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

**Checkout & Last LS:** Students may work during the first 90 minutes (absolute maximum) of LS 13. NOTE THAT IF YOU ARE DOING UNKNOWN ANALYSIS IN LS 13, SAMPLES WILL NOT BE ISSUED AFTER THE FIRST 30 MINUTES OF THE LS. NO EXCEPTIONS. At the 90-minute mark work ceases and students clean up and check out.

*The following paragraph also applies to checkout. READ IT!*

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 WILL be billed for all equipment which must be replaced. Students completing 46L must check out in (or before) LS 13.

**Final Exam:** The Final is a min. 120-pt exam and is T: 12/11/12, 10:00 am - Noon (Exam Group 11B), at a location to be announced. If you are taking the exam but have a conflict with the schedule you must see Dr. Horvath *in person during the last week of class* in LEI 132 to arrange a makeup. Qs & Ps on the exam relate to understanding work done in A's 1 - 9. Extra credit can also be earned on the exam. A solution key to a past 2046L Final Exam is available on Sakai.

**Course Grade:** The CHM 2046L grade is based on total points earned (not %'s – IGNORE "OUT OF" VALUES IN SAKAI) including XC points (see below). Note: Without XC work in A's 10 & 11 the following totals can be earned: 915 (Exps., Probs. Schemes, Unknowns for As signments 1-9) + 50 (max SG) + 120 (Final) = 1085.

The following grade scale then rigidly 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) Work thru 5 A/B unknown analysis must have been completed successfully.
- (ii) Student is passing (grade  $\geq$  D-) at 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.

**Makeup Lab:** A student missing an LS for legitimate 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. Note:

- A MAKEUP LAB MUST BE SCHEDULED IMMEDIATELY ON RETURN TO 2046L AFTER AN EXCUSED ABSENCE. FAILURE TO DO THIS WITHIN A WEEK AFTER RETURNING TO 2046L RESULTS IN GRANT OF NO MAKEUP.
- All makeups will be scheduled solely at the discretion of Ms. Donna Turner, the Lab Mgr. TAs may NOT schedule makeups. Makeup MUST be done at the date, period, and work space designated on the Makeup Form. Noncompliance with this policy results in zero credit as a minimum penalty for work made up.
- For questions on makeup scheduling ask Donna Turner, the Lab Manager. Do NOT contact Dr. Horvath about makeup unless absolutely necessary – and, only in person!
- One makeup max will be scheduled per week. NO EXCEPTIONS unless approved by Ms. Turner or Dr. Horvath.
- For each makeup 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 the makeup TA will be treated as a cheating offense. Penalty is "E" grade!
- Makeups are issued only to replace LSs missed for excusable absence. Each 2046L student is entitled to a maximum of 13 working LSs for Fall Term INCLUDING makeup.

**UNKNOWN ANALYSIS & Makeup:** 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". This is necessary in order to return the graded Unknown Report to your TA and you.

**Assembly Exam & Makeup:** On occasion, students with evening Lab (pers 11-E2) will be scheduled for an assembly exam which will begin at 8:20 p.m. Each such student is to request a makeup for the exam from the instructor 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. For any single assembly exam the student will be granted a half makeup (90 mins). Questions regarding this policy are to be asked at the Stockwindow.

**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 and still intend to return to 2046L it is your duty to contact the Lab Manager (Ms. Turner) via email at: [donnat@chem.ufl.edu](mailto:donnat@chem.ufl.edu) in order to keep your space. If you fail to do this after missing three consecutive LSs your space will be considered vacated and consequently used for makeup.

**Out-of-Class Help:** Out-of-class help for all General Chemistry courses will be provided on a regular daily basis in the Chemistry Learning Center (CLC) which is in 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.

**COMPLAINTS/CONFLICTS/GRADE Qs, etc:** If you experience issues with CHM 2046L (such as Qs on grading) which you cannot resolve with your 2046L TA, please see:

DR. JAMES C. HORVATH IN LEIGH 132.

DR. HORVATH MUST BE SEEN IN PERSON TO RESOLVE ISSUES REGARDING CHM 2046L. Contact via email or telephone is NOT acceptable and WILL BE IGNORED! This policy remains in effect during and after the Term.

HAVE A GREAT SEMESTER!