

Course Information

Date Submitted: 10/30/2013

Current Prefix and Number: CHE - Chemistry , CHE 441G PHYSICAL CHEMISTRY LAB

Other Course:

Proposed Prefix and Number: CHE 441

What type of change is being proposed?

Major Change

Should this course be a UK Core Course? No

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OFFICE OF THE
SENATE COUNCIL**1. General Information**

a. Submitted by the College of: College of Arts & Sciences

b. Department/Division: Chemistry

c. Is there a change in 'ownership' of the course? No

If YES, what college/department will offer the course instead: Select...

e. Contact Person

Name: Arthur Cammers

Email: a.cammers@uky.edu

Phone: 8593238977

Responsible Faculty ID (if different from Contact)

Name:

Email:

Phone:

f. Requested Effective Date

Semester Following Approval: Yes OR Effective Semester:

2. Designation and Description of Proposed Course

a. Current Distance Learning (DL) Status: N/A

b. Full Title: PHYSICAL CHEMISTRY LABORATORY

Proposed Title: PHYSICAL CHEMISTRY LABORATORY

c. Current Transcript Title: PHYSICAL CHEMISTRY LAB

Proposed Transcript Title: PHYSICAL CHEMISTRY LAB

d. Current Cross-listing: none

Proposed – ADD Cross-listing :

Proposed – REMOVE Cross-listing:

e. Current Meeting Patterns

LABORATORY: 6

Proposed Meeting Patterns

LABORATORY: 6

f. Current Grading System: ABC Letter Grade Scale

Proposed Grading System: PropGradingSys

g. Current number of credit hours: 2

Proposed number of credit hours: 2

h. Currently, is this course repeatable for additional credit? No

Proposed to be repeatable for additional credit? No

If Yes: Maximum number of credit hours:

If Yes: Will this course allow multiple registrations during the same semester? No

2i. Current Course Description for Bulletin: Laboratory studies in physical chemistry, including quantum chemistry, spectroscopy, thermodynamics and chemical kinetics. Laboratory, six hours.

Proposed Course Description for Bulletin: Laboratory studies in physical chemistry, including quantum chemistry, spectroscopy, thermodynamics and chemical kinetics. Laboratory, six hours.

2j. Current Prerequisites, if any: Prereq: A physical chemistry course at or above the 400 level.

Proposed Prerequisites, if any: Prereq: A physical chemistry course at or above the 400 level.

2k. Current Supplementary Teaching Component:

Proposed Supplementary Teaching Component: No Change

3. Currently, is this course taught off campus? No

Proposed to be taught off campus? No

If YES, enter the off campus address:

4. Are significant changes in content/student learning outcomes of the course being proposed? No

If YES, explain and offer brief rationale:

5a. Are there other depts. and/or pgms that could be affected by the proposed change? No

If YES, identify the depts. and/or pgms:

5b. Will modifying this course result in a new requirement of ANY program? No

If YES, list the program(s) here:

6. Check box if changed to 400G or 500: No

Distance Learning Form

Instructor Name:

Instructor Email:

Internet/Web-based: No

Interactive Video: No

Hybrid: No

1. How does this course provide for timely and appropriate interaction between students and faculty and among students? Does the course syllabus conform to University Senate Syllabus Guidelines, specifically the Distance Learning Considerations?
2. How do you ensure that the experience for a DL student is comparable to that of a classroom-based student's experience? Aspects to explore: textbooks, course goals, assessment of student learning outcomes, etc.
3. How is the integrity of student work ensured? Please speak to aspects such as password-protected course portals, proctors for exams at interactive video sites; academic offense policy; etc.
4. Will offering this course via DL result in at least 25% or at least 50% (based on total credit hours required for completion) of a degree program being offered via any form of DL, as defined above?
If yes, which percentage, and which program(s)?
5. How are students taking the course via DL assured of equivalent access to student services, similar to that of a student taking the class in a traditional classroom setting?
6. How do course requirements ensure that students make appropriate use of learning resources?
7. Please explain specifically how access is provided to laboratories, facilities, and equipment appropriate to the course or program.
8. How are students informed of procedures for resolving technical complaints? Does the syllabus list the entities available to offer technical help with the delivery and/or receipt of the course, such as the Information Technology Customer Service Center (<http://www.uky.edu/UKIT/>)?
9. Will the course be delivered via services available through the Distance Learning Program (DLP) and the Academic Technology Group (ATL)? NO
If no, explain how student enrolled in DL courses are able to use the technology employed, as well as how students will be provided with assistance in using said technology.
10. Does the syllabus contain all the required components? NO
11. I, the instructor of record, have read and understood all of the university-level statements regarding DL.

Instructor Name:

SIGNATURE|MEIER|Mark S Meier|CHE 441G CHANGE Dept Review|20130615

SIGNATURE|RHANSON|Roxanna D Hanson|CHE 441G CHANGE College Review|20131106

SIGNATURE|JMETT2|Joanie Ett-Mims|CHE 441G CHANGE Undergrad Council Review|20140226

Courses	Request Tracking
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Course Change Form

<https://myuk.uky.edu/sap/bc/soap/ffc?services=>

Generate R

[Open in full window to print or save](#)

Attachments:

Browse...		Upload File
	ID	Attachment
Delete	3083	CHE 441 Syllabus revised.docx
First		Last

Select saved project to retrieve...

[Get](#) [New](#)

NOTE: Start form entry by choosing the Current Prefix and Number
(*denotes required fields)

Current Prefix and Number:		CHE - Chemistry	CHE 441G PHYSICAL CHEMISTRY LAB	Proposed Prefix & Number:	CHE 441
* What type of change is being proposed?		<input checked="" type="checkbox"/> Major Change <input type="checkbox"/> Major - Add Distance Learning <input type="checkbox"/> Minor - change in number within the same hundred series, except 799 is the same "hundred series" <input type="checkbox"/> Minor - editorial change in course title or description which does not change in content or emphasis <input type="checkbox"/> Minor - a change in prerequisite(s) which does not imply a change in course content or emphasis, or which is made necessary by the elimination or significant alteration of the prerequisite(s) <input type="checkbox"/> Minor - a cross listing of a course as described above			
Should this course be a UK Core Course? <input type="radio"/> Yes <input checked="" type="radio"/> No					
If YES, check the areas that apply:					
<input type="checkbox"/> Inquiry - Arts & Creativity <input type="checkbox"/> Composition & Communications - II <input type="checkbox"/> Inquiry - Humanities <input type="checkbox"/> Quantitative Foundations <input type="checkbox"/> Inquiry - Nat/Math/Phys Sci <input type="checkbox"/> Statistical Inferential Reasoning <input type="checkbox"/> Inquiry - Social Sciences <input type="checkbox"/> U.S. Citizenship, Community, Diversity <input type="checkbox"/> Composition & Communications - I <input type="checkbox"/> Global Dynamics					
1. General Information					
a.		Submitted by the College of: College of Arts & Sciences		Submission Date: 10/30/2013	
b.		Department/Division: Chemistry			
c.*		Is there a change in "ownership" of the course? <input type="radio"/> Yes <input checked="" type="radio"/> No If YES, what college/department will offer the course instead? Select...			
e.*		* Contact Person Name: Arthur Cammers		Email: a.cammers@uky.edu Phone: 8593238977	
		* Responsible Faculty ID (if different from Contact):		Email: Phone:	
f.*		Requested Effective Date:		<input checked="" type="checkbox"/> Semester Following Approval OR Specific Term: ²	
2. Designation and Description of Proposed Course.					
a.		Current Distance Learning(DL) Status: <input checked="" type="radio"/> N/A <input type="radio"/> Already approved for DL* <input type="radio"/> Please Add <input type="radio"/> Please Drop			
*If already approved for DL, the Distance Learning Form must also be submitted <u>unless</u> the department affirms (by checking this box) that the proposed change affect DL delivery.					
b.		Full Title: PHYSICAL CHEMISTRY LABORATORY		Proposed Title: * PHYSICAL CHEMISTRY LABORATOR	

c.	Current Transcript Title (if full title is more than 40 characters):	PHYSICAL CHEMISTRY LAB				
c.	Proposed Transcript Title (if full title is more than 40 characters):	PHYSICAL CHEMISTRY LAB				
d.	Current Cross-listing:	<input checked="" type="checkbox"/> N/A	OR	Currently ² Cross-listed with (Prefix & Number):	none	
	Proposed – ADD ² Cross-listing (Prefix & Number):					
	Proposed – REMOVE ^{2,4} Cross-listing (Prefix & Number):					
e.	Courses must be described by at least one of the meeting patterns below. Include number of actual contact hours ⁵ for each meeting pattern					
	Current:	Lecture	Laboratory ⁵ 6	Recitation	Discussion	Indep. Study
		Clinical	Colloquium	Practicum	Research	Residency
		Seminar	Studio	Other:	Please explain:	
	Proposed: *	Lecture	Laboratory ⁵ 6	Recitation	Discussion	Indep. Study
		Clinical	Colloquium	Practicum	Research	Residency
		Seminar	Studio	Other:	Please explain:	
f.	Current Grading System:	ABC Letter Grade Scale				
	Proposed Grading System:*	<input checked="" type="radio"/> Letter (A, B, C, etc.) <input type="radio"/> Pass/Fail <input type="radio"/> Medicine Numeric Grade (Non-medical students will receive a letter grade) <input type="radio"/> Graduate School Grade Scale				
g.	Current number of credit hours:	2	Proposed number of credit hours:*	2		
h.*	Currently, is this course repeatable for additional credit?				<input type="radio"/> Yes <input checked="" type="radio"/> No	
*	Proposed to be repeatable for additional credit?				<input type="radio"/> Yes <input checked="" type="radio"/> No	
	If YES:	Maximum number of credit hours:				
	If YES:	Will this course allow multiple registrations during the same semester?			<input type="radio"/> Yes <input checked="" type="radio"/> No	
i.	Current Course Description for Bulletin:					
	Laboratory studies in physical chemistry, including quantum chemistry, spectroscopy, thermodynamics and chemical kinetics. Laboratory, six hours.					
*	Proposed Course Description for Bulletin:					
	Laboratory studies in physical chemistry, including quantum chemistry, spectroscopy, thermodynamics and chemical kinetics. Laboratory, six hours.					
j.	Current Prerequisites, if any:					
	Prereq: A physical chemistry course at or above the 400 level.					
*	Proposed Prerequisites, if any:					
*						

Prereq: A physical chemistry course at or above the 400 level.	
k. Current Supplementary Teaching Component, if any:	<input type="radio"/> Community-Based Experience <input type="radio"/> Service Learning <input type="radio"/> Both
Proposed Supplementary Teaching Component:	<input type="radio"/> Community-Based Experience <input type="radio"/> Service Learning <input type="radio"/> Both <input checked="" type="radio"/> No Change
3. Currently, is this course taught off campus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
* Proposed to be taught off campus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
If YES, enter the off campus address:	
4.* Are significant changes in content/student learning outcomes of the course being proposed?	<input type="radio"/> Yes <input checked="" type="radio"/> No
If YES, explain and offer brief rationale:	
5. Course Relationship to Program(s).	
a.* Are there other depts and/or pgms that could be affected by the proposed change?	<input type="radio"/> Yes <input checked="" type="radio"/> No
If YES, identify the depts. and/or pgms:	
b.* Will modifying this course result in a new requirement ² for ANY program?	
<input type="radio"/> Yes <input checked="" type="radio"/> No	
If YES ² , list the program(s) here:	
6. Information to be Placed on Syllabus.	
a. <input type="checkbox"/>	Check box if changed to 400G or 500. If changed to 400G- or 500-level course you must send in a syllabus and you must include the differentiation between under and graduate students by: (i) requiring additional assignments by the graduate students; and/or (ii) establishing different grad criteria in the course for graduate students. (See SR 3.1.4.)

¹See comment description regarding minor course change. *Minor changes are sent directly from dean's office to Senate Council Chair.* If Chair deems the change as "not minor," the form will be sent to the appropriate academic Council for normal processing and contact person is informed.

²Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.

³Signature of the chair of the cross-listing department is required on the Signature Routing Log.

⁴Removing a cross-listing does not drop the other course -- it merely unlinks the two courses.

⁵Generally, undergrad courses are developed such that one semester hr of credit represents 1 hr of classroom meeting per wk for a semester, exclusive of any lab meeting. Lab meeting generally represents two hrs per wk for a semester for 1 credit hour. (See SR 5.2.1.)

⁶You must also submit the Distance Learning Form in order for the course to be considered for DL delivery.

⁷In order to change a program, a program change form must also be submitted.

Submit as New Proposal Save Current Changes

"Due to increasing numbers of undergraduate majors in the Chemistry Department there is an increasing need for TAs in the upper division courses. However, graduate students cannot serve as TAs in classes that members of their cohort could take for credit. The following courses were targeted for course number changes to allow the instructors easier access to graduate-student TA work hours.

The courses under consideration are very rarely taken by graduate students. These changes will have little or no impact on UK Chemistry's Graduate Program and should have little impact or no impact on other graduate programs on campus."

CHEMISTRY 441 – PHYSICAL CHEMISTRY LABORATORY

Syllabus – Spring 2013

Instructors: Dr. Doo Young Kim
Office Address : 101 Chem-Phys Building
Email: dooyoung.kim@uky.edu
Office Phone: 257-5597

Office Hours: Tuesday and Thursday 12:00-1:00pm, or by appointment

TAs

MW Section:	
Yiyang Liu	(Office Hour: Wednesday 11:00 am - 12:00 pm, CP-38)
Tao Jin	(Office Hour: Tuesday 2:00 pm - 3:00 pm, CP-2)
TR Section:	
Xiaoning Zhang	(Office Hour: Thursday 4:00 pm - 5:00 pm, CP-07)
Yan Zhang	(Office Hour: Tuesday 4:00 am- 5:00 pm, CP-38)

Course Description: Laboratory studies in physical chemistry, including quantum chemistry, spectroscopy, thermodynamics and chemical kinetics. In CHE 441 the connection between theory and experiment in physical chemistry is demonstrated. Laboratory, 6 hours.

Prerequisites: Prereq: A physical chemistry course at or above the 400 level.

Student Learning Outcomes

After completing this course, the student will be able to

1. understand and describe the relationships between theoretical thermodynamics and bulk experimental properties of materials.
2. describe the relationship between theoretical quantum chemistry to experimental properties of molecules.
3. use modern spectroscopic instruments to measure material properties
4. use spectroscopic measurements to understand and predict properties in molecules and materials.
5. calculate error in observables in experiments based on errors in instruments and manipulation.
6. understand and control for sources of error in measured properties.
7. design experimentation based on the native limitations in instruments and physical limitations.
8. write scientific reports about experimental chemical results.

Laboratory Hours (CP-114): Monday/Wednesday, and Tuesday/Thursday, 1:00-3:50 pm. The

laboratory will be open only during the regularly scheduled hours. Make-up labs or make-up hours will not be provided. You may swap lab slots with another group by mutual consent if your assigned slot conflicts with an unavoidable engagement, but you must have the TA's agreement at least a week in advance.

Schedule	MW*	TR#
Orientation & Safety (CP-114)	January 9	January 10
Statistical Treatment of Data	January 14	January 15
Statistical Treatment of Data	January 16	January 17
MLK Birthday-Academic Holiday-No Laboratory	January 21	January 22
Report Writing	January 23	January 24
Laboratory Experiments Begin	January 28/30	January 29/31
Report Discussion	February 13	February 14
Academic Holidays	March 11-16	March 11-16
Checkout Day <i>Attendance Mandatory</i>	April 23	April 24

*Note: Attendance of both Monday session and Wednesday session is required.

Note: Attendance of both Tuesday session and Thursday session is required.

Lecture Rooms for Statistics and Report Writing

MW	January 14	CP 137 1:00-3:50 pm
	January 16 and 23	CP 103 1:00-3:50 pm
TR	January 15, 17 and 24	CP 137 1:00-3:50 pm

Other Dates

Wednesday, January 9	First day of classes
Tuesday, January 15	Last day to ADD a class
Wednesday, Jan. 30	Last day to DROP a course without it appearing on the student's transcript. Last day to change grading option.

Grading

For eight laboratories in the course, there will be a total of 800 points possible.

Preliminary Reports	10 %	(80 points)
Instructor Evaluation	10 %	(80 points)
Final Reports	80 %	(640 points)

Final letter grades for the course will be assigned on the following basis:

Final Average % (total points)	Course Grade
90 – 100 % (720 – 800)	A
80 – 89.9 % (640 – 719)	B
70 – 79.9 % (560 – 639)	C
60 – 69.9 % (480 – 559)	D
< 60 % (< 480)	E

The instructors reserve the right to lower the cutoffs listed above that are needed to earn a particular letter grade, but will *not* increase any cutoff shown.

Extensive instructions and specific requirements for preparing pre-lab and final laboratory reports, the writing thereof, some details on how they will be graded, and safety issues are included in the Spring 2013 version of the *Chemistry 441 Physical Chemistry Laboratory Manual*, and will not be repeated here. This portion of the laboratory *Manual* is to be considered another part of this course syllabus. Read through this material thoroughly. If you have any questions at all about the material, please ask one of the instructors.

Mid-term grades will be posted in myUK by the deadline established in the Academic Calendar (<http://www.uky.edu/Registrar/AcademicCalendar.htm>)

Experiments

You must complete each of the eight experiments listed below. Usually two or more students will work together on an experiment. The teaching assistants who are responsible for each lab are listed below.

Experiment*	TA (MW)	TA (TR)
	Yiyang Liu, Tao Jin	Xiaoning Zhang, Yan Zhang
#1-Methanol VP	Yiyang Liu, Tao Jin	Xiaoning Zhang, Yan Zhang
#2-Crystal Violet	Yiyang Liu, Tao Jin	Xiaoning Zhang, Yan Zhang
#3-Galvanic Cell	Tao Jin,	Xiaoning Zhang
#4-Gallium Ammonia	Yiyang Liu,	Yan Zhang
#5- UV 2-Naphthol	Yiyang Liu	Yan Zhang
#6- IR-Carbon Oxide	Yiyang Liu	Yan Zhang
#7- DSC 1-Naphthol	Tao Jin	Xiaoning Zhang
#8- Particle in a Box	Tao Jin	Xiaoning Zhang

* Name(s) in bold font are graders for the experiment.

Submission Deadlines for Laboratory Reports

The final laboratory report for each experiment is due at the beginning of the lab period (1 p.m.) one week after the day on which you did that experiment. Reports that would normally be due during Spring Break (March 11-16) should be turned in on **March 18 & 20 (MW) or 19 & 21 (TR)**.

Upon receiving student's lab report, TA who is grading it shall write an e-mail confirmation to the student within 24 hours to acknowledge receiving the lab report. Without TA's acknowledgement e-mail, the lab report is considered as "not turned in".

Absences: Students need to notify the professor of absences prior to class when possible. S.R. 5.2.4.2 defines the following as acceptable reasons for excused absences: (a) serious illness, (b) illness or death of family member, (c) University-related trips, (d) major religious holidays, and (e) other circumstances found to fit "reasonable cause for nonattendance" by the professor.

Students anticipating an absence for a major religious holiday are responsible for notifying the instructor in writing of anticipated absences due to their observance of such holidays no later than the last day in the semester to add a class. Information regarding dates of major religious holidays may be obtained through the religious liaison, Mr. Jake Karnes (859-257-2754).

Students are expected to withdraw from the class if more than 20% of the classes scheduled for the semester are missed (excused or unexcused) per university policy.

ACADEMIC DISHONESTY

You are hereby notified that the Department of Chemistry considers academic dishonesty (cheating) a very serious offense. We will follow the new policy for handling cases of academic dishonesty: (1) The minimum penalty for a first offense is **zero** on the assignment. (2) Any offense that results in a penalty will be reported to the Registrar by the Ombud. (3) The minimum penalty for a second offense is **E**, and for a third offense, it is **suspension**.

“Dry labbing” (that is, not doing the lab, then using other students’ data or inventing your own data) is regarded as cheating. Using any part of a report written by others is plagiarism, a form of cheating. It is also cheating if you use a spreadsheet created by someone else to analyze your data. Even though you will collect your data in pairs, the analysis of your common data and preparation of your laboratory report *must be completed independently*. In the words of the University Senate:

6.3.1 PLAGIARISM

All academic work, written or otherwise, submitted by students to their instructors or other academic supervisors, is expected to be the result of their own thought, research, or self-expression. In cases where students feel unsure about a question of plagiarism involving their work, they are obliged to consult their instructors on the matter before submission.

When students submit work purporting to be their own, but which in any way borrows ideas, organization, wording or anything else from another source without appropriate acknowledgment of the fact, the students are guilty of plagiarism.

Plagiarism includes reproducing someone else's work, whether it be published article, chapter of a book, a paper from a friend or some file, or whatever. Plagiarism also includes the practice of employing or allowing another person to alter or revise the work which a student submits as his/her own, whoever that other person may be. Students may discuss assignments among themselves or with an instructor or tutor, but when the actual work is done, it must be done by the student, and the student alone.

When a student's assignment involves research in outside sources or information, the student must carefully acknowledge exactly what, where and how he/she has employed them. If the words of someone else are used, the student must put quotation marks around the passage in

question and add an appropriate indication of its origin. Making simple changes while leaving the organization, content and phraseology intact is plagiaristic. However, nothing in these *Rules* shall apply to those ideas which are so generally and freely circulated as to be a part of the public domain.

6.3.2 CHEATING

Cheating is defined by its general usage. It includes, but is not limited to, the wrongfully giving, taking, or presenting any information or material by a student with the intent of aiding himself/herself or another on any academic work which is considered in any way in the determination of the final grade. The fact that a student could not have benefited from an action is not by itself proof that the action does not constitute cheating. Any question of definition shall be referred to the University Appeals Board. [US: 12/12/05]

In the case of suspected academic dishonesty, the instructors and the Department of Chemistry will carefully follow the procedures detailed in the current version of the *University Senate Rules* on the Disposition of Cases of Academic offenses (6.4).

If you have any questions at all about what may constitute academic dishonesty in the course, please ask. The following is more information on university policy about academic dishonesty:

Per university policy, students shall not plagiarize, cheat, or falsify or misuse academic records. Students are expected to adhere to University policy on cheating and plagiarism in all courses. The minimum penalty for a first offense is a zero on the assignment on which the offense occurred. If the offense is considered severe or the student has other academic offenses on their record, more serious penalties, up to suspension from the university may be imposed.

Plagiarism and cheating are serious breaches of academic conduct. Each student is advised to become familiar with the various forms of academic dishonesty as explained in the Code of Student Rights and Responsibilities. Complete information can be found at the following website: <http://www.uky.edu/Ombud>. A plea of ignorance is not acceptable as a defense against the charge of academic dishonesty. It is important that you review this information as all ideas borrowed from others need to be properly credited.

Part II of *Student Rights and Responsibilities* (available online <http://www.uky.edu/StudentAffairs/Code/part2.html>) states that all academic work, written or otherwise, submitted by students to their instructors or other academic supervisors, is expected to be the result of their own thought, research, or self-expression. In cases where students feel unsure about the question of plagiarism involving their own work, they are obliged to consult their instructors on the matter before submission.

When students submit work purporting to be their own, but which in any way borrows ideas, organization, wording or anything else from another source without appropriate

acknowledgement of the fact, the students are guilty of plagiarism. Plagiarism includes reproducing someone else's work, whether it be a published article, chapter of a book, a paper from a friend or some file, or something similar to this. Plagiarism also includes the practice of employing or allowing another person to alter or revise the work which a student submits as his/her own, whoever that other person may be.

Students may discuss assignments among themselves or with an instructor or tutor, but when the actual work is done, it must be done by the student, and the student alone. When a student's assignment involves research in outside sources of information, the student must carefully acknowledge exactly what, where and how he/she employed them. If the words of someone else are used, the student must put quotation marks around the passage in question and add an appropriate indication of its origin. Making simple changes while leaving the organization, content and phraseology intact is plagiaristic. However, nothing in these Rules shall apply to those ideas which are so generally and freely circulated as to be a part of the public domain (Section 6.3.1).

Please note: Any assignment you turn in may be submitted to an electronic database to check for plagiarism.

Accommodations due to disability:

If you have a documented disability that requires academic accommodations, please see me as soon as possible during scheduled office hours. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (Room 2, Alumni Gym, 257-2754, email address: jkarnes@email.uky.edu) for coordination of campus disability services available to students with disabilities.

SAFETY RELEASE – Physical Chemistry Laboratory

1. The Chemistry Department makes every effort to run instructional laboratories safely.
2. Students who have special medical conditions (e.g., severe allergies, pregnancy) should consult with their personal physicians before beginning laboratory work. The Chemistry Department will be happy to work with a student's personal physician in attempting to determine the level of risk to that particular student.
3. The responsibility of the Chemistry Department for a student in a laboratory may be different if that student is not yet 18 years old. Please mark the appropriate box below:

I have already passed my eighteenth birthday.

(If not already 18 years old). My birth date is: _____

4. Removal of chemicals, glassware, or any other items from any laboratory in the Department constitutes a potential safety hazard to individuals in the community who are not familiar with their safe handling. Any student alleged to have removed any item from the building will be reported to the police. Any student caught removing any item from the building will be prosecuted. The case of any student convicted of removing an item from the building will be automatically turned over to the Dean of Students and charged with a disciplinary offense. The Department may recommend that the Dean of Students seek the harshest of University sanctions, which include expulsion.
5. Please read the following statement. If you accept the statement, please sign and date it in the spaces provided. No laboratory work may begin until this statement has been signed.
6. I have completed all the pre-requisite courses (A physical chemistry course(s) at or above the 400 level.)
7. Turn in laboratory report in TA or instructor's mailbox is not accepted.

I certify that I –

- a. Have been instructed in laboratory safety procedures,
- b. Understand these procedures and all my questions about them have been answered
- c. Agree to abide by them,
- d. Have given correct information about my birth date,
- e. And have read the paragraph (2) above.

Print Name _____

Signed _____

Date _____

SAFETY STATEMENT

I certify that I know the locations of all the –

- a. exits to the hallways (3)
- b. emergency showers (3),
- c. fire extinguishers (4),
- d. eyewash stations (3),
- e. fire blankets (2), and the
- f. carbon monoxide alarm (1)

in the Physical Chemistry Laboratory – Room114 in the Chemistry Physics Building at the University of Kentucky.

I further certify that I have been given instruction in the use of these devices, I understand how and when to use these, and have had all my questions concerning these devices answered.

I understand that I **must** wear approved safety goggles or safety glasses **at all times** in the laboratory.

PRINT NAME _____

SIGNED _____

DATE _____

APPROVED BY GC 11/6/14

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