



FLORIDA  
ATLANTIC  
UNIVERSITY

## COURSE CHANGE REQUEST Undergraduate Programs

Department Chemistry and Biochemistry  
College Science

UUPC Approval \_\_\_\_\_  
UFS Approval \_\_\_\_\_  
SCNS Submittal \_\_\_\_\_  
Confirmed \_\_\_\_\_  
Banner Posted \_\_\_\_\_  
Catalog \_\_\_\_\_

**Current Course Prefix and Number** CHM 2046L

**Current Course Title**  
General Chemistry 2 Lab

*Syllabus must be attached for ANY changes to current course details. See [Template](#). Please consult and list departments that may be affected by the changes; attach documentation.*

**Change title to:**

**Change prefix**

From: \_\_\_\_\_ To: \_\_\_\_\_

**Change course number**

From: \_\_\_\_\_ To: \_\_\_\_\_

**Change credits\***

From: \_\_\_\_\_ To: \_\_\_\_\_

**Change grading**

From: \_\_\_\_\_ To: \_\_\_\_\_

**Change WAC/Gordon Rule status\*\***

Add  Remove

**Change General Education Requirements\*\*\***

Add  Remove

\*See [Definition of a Credit Hour](#).

\*\*WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to this form. See [WAC Guidelines](#).

\*\*\*GE criteria must be indicated in syllabus and approval attached to this form. See [Intellectual Foundations Guidelines](#).

**Change description to:**

This laboratory course is designed to deepen understanding of key chemical principles covered in General Chemistry 2 and to enhance practical laboratory skills. Experiments include acid-base titrations, reaction kinetics, equilibrium constant determination, and calorimetry.

**Change prerequisites/minimum grades to:**

**Change corequisites to:**

**Change registration controls to:**

Please list existing and new pre/corequisites, specify AND or OR and include minimum passing grade (default is D-).

**Effective Term/Year for Changes:** Fall 2024

**Terminate course? Effective Term/Year for Termination:**

**Faculty Contact/Email/Phone** Tito Sempertegui / tsempert@fau.edu / 561-297-2508

**Approved by**

Department Chair Andrew Terent's

College Curriculum Chair [Signature]

College Dean [Signature]

UUPC Chair \_\_\_\_\_

Undergraduate Studies Dean \_\_\_\_\_

UFS President \_\_\_\_\_

Provost \_\_\_\_\_

**Date**

9-27-24

10/25/24

10-24-24

Email this form and syllabus to [mjenning@fau.edu](mailto:mjenning@fau.edu) seven business days before the UUPC meeting.



FLORIDA ATLANTIC UNIVERSITY

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**CHM 2046L-001 10272**

**General Chemistry 2 Lab**

**Date:** Monday 6:00 PM - 8:50 PM

**Building:** Physical Science Bldg Boca **Room:** 204

**1 Credit(s)**

**Fall 2024 - 1 Full Term**

## Instructor Information

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Ozlem Yavuz-Petrowski

**Email:** [oyavuzpetrowski@fau.edu](mailto:oyavuzpetrowski@fau.edu)

**Office:** PS 215

**Office Hours:** Mondays at 4:00-5:00 pm.

**Phone:** 561-297-4433

**Course Admin:** Aleksandra Nedovic

**Email:** [anedovic2019@fau.edu](mailto:anedovic2019@fau.edu)

**Office Hours:** Office hours will be posted in canvas course page.

You must contact the Course Admin for course related issues such as assignment submission problems, late submissions, scheduling and make-ups.

Section TAs office hour information will be posted in canvas.

Office hours room is located in Physical Science Building (PS), room 359.

## Course Description

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## General Chemistry Lab 2

Prerequisites: CHM 2045, CHM 2045L

Corequisite: CHM 2046

This laboratory course is designed to deepen understanding of key chemical principles covered in General Chemistry 2 and to enhance practical laboratory skills. Experiments include acid-base titrations, reaction kinetics, equilibrium constant determination, and calorimetry.

## Prerequisites/Corequisites

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### Prerequisite(s): All of the following:

- CHM 2045L Graduate / Undergraduate (Minimum Grade of D-)
- CHM 2045 Graduate / Undergraduate (Minimum Grade of D-)

### Corequisite(s):

Subject	Course Number
CHM	2046

## Instructional Method

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### In-Person

Traditional concept of in person. Mandatory attendance is at the discretion of the instructor.

## Required Texts/Materials

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### Laboratory Notebook and Calculator

### Lab Coat and Safety Goggles

**General Chemistry 2 Laboratory: CHM 2046L**

**ISBN:** 9781792429514

**Publisher:** Kendall Hunt

**Edition:** 11th

## Course Objectives/Student Learning Outcomes

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Upon successful completion of this course, students will be able to:

1. Identify and apply fundamental thermodynamic ideas about matter, atoms, molecules, systems, and measurements relating to chemistry.
2. Compare physical and chemical properties of gases and their interactions. Gas laws and Ideal gas constants. Non-ideal gases and pressure, volume, and temperature relationships.
3. Recognize the colligative properties of matter and reactions involving freezing points and boiling points and its relevance to chemical change.
4. Identify and apply concepts of acids and bases and buffers. Perform calculations with  $K_a$ ,  $K_b$  and  $K_w$ . Perform titration reactions. Study the pH effect of acid and bases to a buffer solution.
5. Understand the concept of dynamic equilibrium and predict how changing system conditions affect the equilibrium. Calculate concentrations of reactants and products before and after reaching equilibrium.
6. Recognize the effect of changes such as concentration, temperature, and addition of a catalyst on the reaction rate. Determine rate of reactions including first order and second order rate reactions.
7. Demonstrate critical thinking by problem solving and use mole concepts and solubility to determine  $K_{sp}$  and chemical reactions relating to precipitation.

**After completion of the associated lab, the student will be able to:**

1. To perform experiments illustrating key concepts in chemistry.
2. Analyze resulting data and draw appropriate conclusions from data obtained during experiments.
3. To master laboratory techniques used in General Chemistry laboratories.
4. To reinforce material presented in the CHM 2046 lecture course.

## Faculty Rights and Responsibilities

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Florida Atlantic University respects the rights of instructors to teach and students to learn. Maintenance of these rights requires classroom conditions that do not impede their exercise. To ensure these rights, faculty members have the prerogative to:

- Establish and implement academic standards.

- Establish and enforce reasonable behavior standards in each class.
- Recommend disciplinary action for students whose behavior may be judged as disruptive under the Student Code of Conduct [University Regulation 4.007](#).

## Disability Policy

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In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at [www.fau.edu/sas/](http://www.fau.edu/sas/).

## Course Evaluation Method

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### **Syllabus & Course Agreement, Student Responsibility Agreement, and Safety Assignment:**

You must complete these within the first two weeks; the due date is August 25 at 11:59 pm. Students who fail to return these documents and fail to complete the Syllabus & Course Agreement may not be authorized to attend the Lab.

**Laboratory Reports:** We require high standards from you in terms of the quality of lab reports to be handed in. All lab reports include prelab, data sheet and calculations, and discussion & conclusion. Prelabs and lab reports must be submitted as PDF files. An explanation of the required writing components for each section is listed below.

**Pre-Lab (preparation for the lab), 5 points:** Prelab has to be prepared by the student, must be done before attending to the lab meeting and must be presented during the lab session. Prelabs must be handwritten, and must be submitted together with experimental data sheet and calculations through canvas. The handwritten prelab requires four components: (1) the purpose of the experiment, (2) a flow chart, (3) list of chemicals and waste collection, and (4) a statement of accountability. Details of how to write a perfect prelab and a flow chart are given under the introduction module on Canvas, and the requirements of this section are outlined. Your TA may ask you to close your lab textbook and perform the experiment with your flow chart alone at any time. Any student submitting a prelab identical to another student's will receive a zero as a grade. TAs will check and sign the prelabs on the day of lab meeting. Students who do not have a physical copy of the prelab will not be accepted to the lab section.

The following sentence must be included in prelabs at the end and signed by the student. The statement is: **“I certify that this is my own work and I understand that if I am found to be in violation of the honor code, I will be subject to the highest penalty”**

**Experimental Data Sheet and Calculations, 35 points:** Experimental data table & calculations and/or graphs are the primary assignment of the lab and must be completed during the lab session. Experimental data

tables & calculations & graphs together with prelab as a single PDF file must be submitted through Canvas before the due date. It is students' responsibility to be able to scan lab reports by using smartphone apps or scanners. All data taken during the lab should be written in blue/black pen only. No pencils are allowed during data recording. If you make a mistake, cross it rather than erase or black it out. Your TA must sign the experimental data sheet and calculations before leaving the lab. TA will not grade your submission if there is no signature on the data table and calculations, and you will receive zero as a grade. Before submission, make sure that:

- 1) All calculations are complete,
- 2) Significant figure rules are applied, units are included,
- 3) Report is well-organized,
- 4) The lab report is signed by your TA. (Do not leave the lab until you have the TAs signature)

Since you will complete most of this section in the lab, it will be handwritten; therefore, lab reports should be well-organized and legible. Remember that we cannot grade your work if we cannot read it. Experimental data sheets and calculations together with prelab must be submitted as a PDF single file through Canvas. Any student submitting a data sheet and calculations identical to another student's will receive a zero as a grade. In addition to online submission, students must bring the physical copy of the submitted lab reports (prelab, calculations and data table) with them in the following lab meeting and must return to their TAs. Students might receive up to 10 point deductions if they fail to return their physical copies of the lab reports. Assignments submitted after the due date will be graded with a 50 % penalty. Submitting the physical copy of the lab will not be considered a valid submission, as all lab assignments must be returned through the course canvas page as a single page PDF file before the due date. After 3rd week, submissions will not be accepted. Late submissions will not be accepted for make-up labs or the final lab of the semester. Students are not permitted to request late submissions for any missing lab assignments at the end of the semester.

**Discussion and Conclusions, 10 points:** Discussion & conclusion is part of the lab report and needs to be submitted separately through the assigned canvas page via "Turnitin." **Discussion & conclusions must be TYPED; handwritten submissions will not be graded. Discussion and Conclusion must be submitted as a Word document. Uploading submissions as image files through copy and paste and PDF files will not be accepted, and such entries will be awarded a grade of zero.** Turnitin, Turnitin's AI writing, and ChatGPT signature scores equal to or greater than 50% will be penalized and graded out of 5 points instead of 10 points. If a similarity score equals or exceeds 60%, the student will receive zero as a grade.

**Format:** The discussion and conclusions page should be no shorter than 1 and no longer than 2 pages: 11 font size with 1.5-line spacing in the entire document, with no double space. Any material written beyond this will not be read, nor will it be graded. We have attached a document entitled "How to write an excellent discussion and conclusion section" that outlines 5 regular requirements of this section. In addition to these requirements, we have included a "Considerations for Discussion and Conclusion Section in your lab manual." Please refer to this section as you write your lab report's Discussion and Conclusion portion. Lab reports and discussions are due by midnight before the scheduled lab meetings.

**The use of AI to assist in any work assigned in this specific course is prohibited.** Students do not need AI help to complete discussion and conclusion essays or lab reports. Because discussion and conclusions essay writing or lab reports are specific to the experiment, students will have enough background information and experimental data to complete these assignments. Failure to comply with the requirements related to the use of AI may constitute a violation of the [Florida Atlantic Code of Academic Integrity, Regulation 4.001](#).

**NOTE:** NOTE: Students must be able to scan their prelab & data sheet and calculations portion of the labs by using the [Notes app](#). if you have an iPhone or using the [Google Drive app](#) on most smartphones, or you can also download any other scanner app of your choice to accomplish this.

Students must verify their submitted lab reports on the Canvas page, as technical issues may occur during last-minute submissions. In such instances, the student should promptly reach out to their TA, providing completed lab reports, and seek permission to submit to avoid late penalties since email submissions are not accepted. If a student fails to submit an online submission on time but submits within two weeks, it will be graded with a 50% points deduction. After 3rd week, submission requests will not be accepted.

Students must have reliable equipment and internet connections to submit assignments and maintain course requirements. Technological issues do not constitute an excusable emergency. (see Minimum Technology & Computer Requirements section of this syllabus).

**A statement of accountability:** The following sentence must be included in ALL lab reports at the end and signed by the student. The statement is: "I certify that this is my own work and I understand that if I am found to be in violation of the honor code, I will be subject to the highest penalty"

**The instructor will calculate your grade based on the following weighted distribution:**

Assessment	Percentage (%)
Course Orientation <ul style="list-style-type: none"><li>• Safety Assignment</li><li>• Student Responsibility Agreement</li><li>• Syllabus &amp; Course Agreement Quiz</li></ul>	0
10-Prelabs and Lab Reports (Experiment Data Sheet and Calculations) <ul style="list-style-type: none"><li>• Worth each up to 40 points</li></ul>	80
10-Discussion & Conclusions <ul style="list-style-type: none"><li>• Worth each up to 10 points</li></ul>	20
TOTAL:	100%

## Code of Academic Integrity

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Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](#).

### Plagiarism

Plagiarism is unacceptable in the University community. Academic work must be an original work of your own thought, research, or self-expression. When students borrow ideas, wording, or organization from another source, they must acknowledge that fact in an appropriate manner. Plagiarism is the deliberate use and appropriation of another's work without identifying the source and trying to pass off such work as one's own. Any student who fails to give full credit for ideas or materials taken from another has plagiarized. This includes all discussion board posts, journal entries, wikis, and other written and oral presentation assignments. If in doubt, cite your source.

### Netiquette

Due to the casual communication common in the online environment, students are sometimes tempted to relax their grammar, spelling, and/or professionalism. Please remember that you are adult students and professionals—your communication should be appropriate. For more in-depth information, please see the FAU statement on netiquette.

### Classroom Etiquette/Disruptive Behavior Policy Statement

Disruptive behavior is defined in the FAU Student Code of Conduct as "... activities which interfere with the educational mission within classroom." Students who disrupt the educational experiences of other students and/or the instructor's course objectives in a face-to-face or online course are subject to disciplinary action. Such behavior impedes students' ability to learn or an instructor's ability to teach. Disruptive behavior may include but is not limited to non-approved use of electronic devices (including cellular telephones); cursing or shouting at others in such a way as to be disruptive; or, other violations of an instructor's expectations for classroom conduct.

For more information, please see the FAU Office of Student Conduct.

## Attendance Policy Statement

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Students are expected to attend all their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of nonattendance. Students are



responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations, or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances, and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

CHM2046L is an in-person lab with no remote option for this course. Attendance at all labs is mandatory. Students must attend the section and times they are registered at the beginning of the semester. Failure to participate in the lab session is considered an absence, and the student will receive a zero for that lab.

## Religious Accommodation Policy Statement

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In accordance with the rules of the Florida Board of Education and Florida law, students have the right to reasonable accommodations from the University in order to observe religious practices and beliefs regarding admissions, registration, class attendance, and the scheduling of examinations and work assignments. University Regulation 2.007, Religious Observances, sets forth this policy for FAU and may be accessed on the FAU website at [www.fau.edu/regulations](http://www.fau.edu/regulations).

Any student who feels aggrieved regarding religious accommodations may present a grievance to the executive director of The Office of Civil Rights and Title IX. Any such grievances will follow Florida Atlantic University's established grievance procedure regarding alleged discrimination.

## Time Commitment Per Credit Hour

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For traditionally delivered courses, not less than one (1) hour of classroom or direct faculty instruction each week for fifteen (15) weeks per Fall or Spring semester, and a minimum of two (2) hours of outof-class student work for each credit hour. Equivalent time and effort are required for Summer Semesters, which usually have a shortened timeframe. Fully Online courses, hybrid, shortened, intensive format courses, and other non-traditional modes of delivery will demonstrate equivalent time and effort.

## Course Grading Scale

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The course uses FAU's standard grading scale.

Letter Grade	Letter Grade
A	100% to 94%

A-	< 94% to 90%
B+	< 90% to 87%
B	< 87% to 83%
B-	< 83% to 80%
C+	< 80% to 77%
C	< 77% to 73%
C-	< 73% to 70%
D+	< 70% to 67%
D	< 67% to 63%
D-	< 63% to 60%
F	< 60% to 0%

## Grade Appeal Process

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You may request a review of the final course grade when you believe that one of the following conditions apply:

- There was a computational or recording error in the grading.
- The grading process used non-academic criteria.
- There was a gross violation of the instructor's own grading system.

[University Regulation 4.002](#) of the University Regulations contains information on the grade appeals process

## Policy on Make-up Tests, Late work, and Incompletes

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### MAKE-UP POLICY FOR LABS:

Students who have university-approved absences still must complete all scheduled experiments and/or make-up work. Any student who does not attend the lab at the scheduled time will receive a score of zero on that lab. An exemption from this policy will be considered only for one of the following reasons, and students will be allowed to complete the work determined by the instructor at the scheduled date:

- (1) Medical emergency or problem

- (2) Death in the immediate family
- (3) Participation in an FAU-sponsored academic or athletic activity
- (4) Required appearance in a civil or criminal court
- (5) Religious holiday

**If you miss a lab or intend to miss a lab, there is a proper procedure that needs to be followed:**

- You MUST contact your TA prior to the event if you know you will be missing a lab.
- If you must miss a lab due to an unforeseeable event, you MUST contact your TA during the time frame of THAT specific lab (same week before Friday). Only one make up opportunity is given at the end of the semester, see the lab schedule. If student fails to provide documentation within the same week or cannot complete make up at the scheduled time will receive zero as a grade.
- It is the student's responsibility to contact their TA/Instructor and to schedule a makeup.
- If you have not provided your TA with the proper documentation associated with the excused absence, have not followed the procedure above, and/or have not scheduled a makeup section or work, you will receive a zero grade for that lab.
- Students cannot request a makeup if they are late to their lab sections, do not complete prelab prior to coming to the lab, do not follow the dress code, and/or do not have a documented excuse.
- Students can not submit documentation at the end of the semester to complete the incomplete labs. All documented excuses must be submitted at the time of the event.

**CHANGE OF GRADE POLICY**

If you disagree with any lab grade, you must act upon it within one week after the score has been posted. First, you must discuss it with your TA during their office hours. If you are still not satisfied, you may make an appointment with the Course Instructor/Lab Director to discuss your grade. After 1 week has elapsed, no change in the grade may be requested by the student.

**INCOMPLETE GRADE POLICY**

The University policy states that a student who is passing a course but has not completed all work due to exceptional circumstances, may, with consent of the instructor, temporarily receive a grade of incomplete ("I"). The assignment of the "I" grade is at the discretion of the instructor but is allowed only if the student is passing the course. Incomplete is not to be used to allow students to do extra work subsequently to raise a grade or repeat the whole course for a better grade. To be able to receive an incomplete grade:

1. Majority of the coursework must be completed.
2. Student must have a passing grade at the time of request.
3. Student must have documentation for an exceptional circumstance and documentation must be presented during the request.

## Special Course Requirements

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### Handling Laboratory Reports and Laboratory experiments:

- ALL TAs follow a standardized grading scale to grade all assignments.
- The grading rubric is developed by the lab director and discussed prior to implementation.
- The TA may lower the total score of each lab report by up to five points for major mishaps (i.e. unreadable handwriting, not following procedures).
- Missing lab experiments will result in zero grades without proper documentation. If the student has university-approved reasons such as illness, military obligation, court-imposed legal obligations, or participation in university-approved activities, the student still must complete the lab, instructor may direct the student to attend the lab on the following day if there is a scheduled lab. For this reason, you need to communicate with instructor/TA or Lab director with the earliest convenience for the make ups.
- Students cannot attend lab: If students are late more than 15 minutes, do not have prelab, do not adhere to the required dress code, or if students are repeatedly late to the regular lab sections.
- Lab reports (prelab, data table, calculation, and response to discussion questions) are due according to the lab schedule. Late submissions will not be accepted after three weeks.

- Data Sheet and calculation portion of lab report is worth 35 points. A pre-lab is worth 5 points, and discussion and conclusions are worth 10 points. The lowest lab report and discussion grade drops during the semester. Canvas is set to drop the lowest lab report and discussion grade. Each student's grade will automatically reflect this rule.
- First half hour of the lab, your TA will present a mini-lecture including important details for that experiment.
- Students are expected to be familiar with the background information and procedure of each experiment before coming to the lab. The laboratory manual and the experimental modules on Canvas contain important information about the experiments. Students are encouraged to read the material and watch posted videos.
- To assist students with any lab-related questions, all TAs have office hours. Students are entitled and encouraged to contact their TA for help or guidance in the labs. The schedule and times of these will be available on Canvas and will be posted in the lab course.
- The graded lab reports will be available for discussion a week after you turn them in. However, discussion of grades should occur during the TA's weekly office hours.
- Grades for each lab experiment will be assigned on Canvas periodically. However, it is the student's responsibility to keep track of their graded lab reports as they are not returned to them during class time. We advise that you use the blank page behind the "Table of Contents" in your lab manual to record ALL lab grades and perhaps make notes of deductions so that the same mistakes are not made in subsequent graded lab reports.

### **Laboratory Safety Rules**

- The Safety video must be viewed by all students before they are permitted into an experimental lab session.
- Students should bring their own personal protection equipment: safety glasses (goggles) and lab coat.
- Students must use a long lab coat with long sleeves that are close-fitting.
- Students must have no visible or uncovered skin below the lab coat.
- Students should wear close-toed shoes made of nonporous material.
- High heels are not suggested and slippers, crocs, and flip-flops are forbidden.
- Long hair and headscarves must be tied back. No food or beverage is allowed in the lab.
- Consumption of food or drink is not allowed.
- Bags, books, and other personal items cannot be placed on the workbenches. They must be put in such a way that they do not obstruct the aisles between lab benches.
- Students are responsible for maintaining a clean bench and common workspace during and after experiments, it is part of their grading.

- Students cannot ENTER the laboratory whenever a session is scheduled to have chemicals present and/or a lab procedure performed without the instructor's/TA's permission.
- When glassware is broken or spills involving chemicals occur, notify your lab TA immediately.
- Proper handling of chemicals will be explained by your TA/instructor. Under no circumstances are chemicals to be returned to their original containers or thrown in the sink or trash can.  
Proper disposal containers must be used.
- If the rules are not followed, the instructor/TA has the right to ask you to leave the lab.

## Policy on the Recording of Lectures

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Students enrolled in this course may record video or audio of class lectures for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a university course intended to present information or teach students about a particular subject. Recording class activities other than class lectures, including but not limited to student presentations (whether individually or as part of a group), class discussion (except when incidental to and incorporated within a class lecture), labs, clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the lecturer, is prohibited. Recordings may not be used as a substitute for class participation or class attendance and may not be published or shared without the written consent of the faculty member. Failure to adhere to these requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity.

## Counseling and Psychological Services (CAPS) Center

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Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual therapy, group therapy, and crisis services, to name a few - offered to help improve and maintain emotional well-being. For more information, go to <http://www.fau.edu/counseling/>

## Student Support Services and Online Resources

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- [Center for Learning and Student Success \(CLASS\)](#)
- [Counseling and Psychological Services \(CAPS\)](#)
- [FAU Libraries](#)
- [Math Learning Center](#)

- [Office of Information Technology Helpdesk](#)
- [Center for Global Engagement](#)
- [Office of Undergraduate Research and Inquiry \(OURI\)](#)
- [Science Learning Center](#)
- [Speaking Center](#)
- [Student Accessibility Services](#)
- [Student Athlete Success Center \(SASC\)](#)
- [Testing and Certification](#)
- [Test Preparation](#)
- [University Academic Advising Services](#)
- [University Center for Excellence in Writing \(UCEW\)](#)
- [Writing Across the Curriculum \(WAC\)](#)

## Course Topical Outline

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### CHM2046L EXPERIMENT SCHEDULE for Fall 2024

Dates	<p style="text-align: center;"><b>EXPERIMENTS</b></p> <p style="text-align: center;"><b>TAS and STUDENTS MUST USE ALL CLASS TIME TO FINISH THE CALCULATIONS</b></p>
Aug. 19 - 23	Mandatory Safety Meeting, Syllabus Review and Drawer Check In. Safety Quiz and Agreements are due this week
Aug. 26- 30	G.C. 2 - 1: Hess's Law
Sep. 2-6	<b>No labs this week, Labor Day on Monday, September 2nd</b>
Sep. 9-13	G.C. 2 - 2: Investigation of the relationship between volume and temperature
Sep. 16-20	G.C. 2 - 3: Qualitative Analysis of Cations
Sep. 23-27	G.C. 2 - 4: Freezing Point Depression
Sep. 29- Oct. 4	G.C. 2 - 5: Rate of Reaction Study
Oct. 7 - 11	G.C. 2 - 6: Determination of K <sub>c</sub> for ionic species in solution

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Oct. 14- 18	G.C. 2 - 7: Studying the effects of changes in conditions on an equilibrium system
Oct. 21- 25	G.C. 2 - 8: Acid – Base Titrations Using a pH Meter: Simulation
Oct. 28 - Nov.1	G.C. 2 - 9: The Effect of a Buffer Solution: Simulation
Nov. 4 - 8	G.C. 2-10: Determination of K <sub>sp</sub> , Lab is due in the class time. <b>Drawer check out</b>
Nov. 12 - 15	<b>Makeup Labs:</b> Prelab, data sheet and calculation submissions are due in the



	lab time
Nov. 17	<b>Due Date for Discussion Makeup Lab submission</b>
Nov. 29	<b>Due Date for all Grades</b>

## Artificial Intelligence Preamble

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FAU recognizes the value of generative AI in facilitating learning. However, output generated by artificial intelligence (AI), such as written words, computations, code, artwork, images, music, etc., for example, is drawn from previously published materials and is not your own original work.

FAU students are not permitted to use AI for any course work unless explicitly allowed to do so by the instructor of the class for a specific assignment. [\[Policy 12.16 Artificial Intelligence\]](#)

Class policies related to AI use are decided by the individual faculty. Some faculty may permit the use of AI in some assignments but not others, and some faculty may prohibit the use of AI in their course entirely. In the case that an instructor permits the use of AI for some assignments, the assignment instructions will indicate when and how the use of AI is permitted in that specific assignment. It is the student's responsibility to comply with the instructor's expectations for each assignment in each course. When AI is authorized, the student is also responsible and accountable for the content of the work. AI may generate inaccurate, false, or exaggerated information. Users should approach any generated content with skepticism and review any information generated by AI before using generated content as-is.

If you are unclear about whether or not the use of AI is permitted, ask your instructor before starting the assignment.

Failure to comply with the requirements related to the use of AI may constitute a violation of the [Florida Atlantic Code of Academic Integrity, Regulation 4.001](#).

Proper Citation: If the use of AI is permitted for a specific assignment, then use of the AI tool must be properly documented and cited. For more information on how to properly cite the use of AI tools, visit <https://fau.edu/ai/citation>

## Minimum Technology and Computer Requirements

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### Hardware & Software Requirements

#### Hardware

- Dependable computer
- Computer speakers
- Headset with microphone

- Webcam
- Printer/Ink/Paper
- Scanner App or other scanning device

### **Software**

- Microsoft 365 Suite
- Reliable web browser (recommended Chrome or Firefox)
- Canvas mobile app: Download instructions for iOS device or Android device
- Adobe Reader
- Adobe Flash Player
- Respondus LockDown Browser (Required for Exams)
  - Windows Download
  - Mac Download

### **Internet Connection**

- Recommended: Broadband Internet connection with a speed of 4 Mbps or higher.
- To function properly, Canvas requires a high-speed Internet connection (cable modem, DSL, satellite broadband, T1, etc.). The minimum Internet connection speed to access Canvas is a consistent 1.5 Mbps (megabits per second) or higher.
- Check your Internet speed here.

### **Computer Requirements**

Basic Computer Specifications for Canvas

- Operating system: Windows 10 or macOS High Sierra (10.3) or higher.
- Specifications

### **Peripherals**

- A backup option should be available to minimize the loss of work. This can be an external hard drive, a USB drive, cloud storage, or your folder on the FAU servers.

### **Software**

- Once logged in to Canvas make sure your Internet browser is compatible.
- Other software may be required for specific learning modules. If so, the necessary links to download and install will be provided within the applicable module.

## **Minimum Technical Skills Requirements**

The general and course-specific technical skills you must have to succeed in the course include but are not limited to:

- Accessing Internet.
- Using Canvas (including taking tests, attaching documents, etc.).
- Using email with attachments.
- Creating and submitting files in commonly used word processing program formats such as Microsoft Office Tools.
- Copying and pasting functions.
- Downloading and installing software.
- Using presentation, graphics, and other programs.
- Posting and commenting in an online discussion.
- Searching the FAU library and websites.
- Maneuvering through interactive screens and scenes.

## **Technical Support**

In the online environment, technical issues are always possible (e.g., lost connection, hardware or software failure). Many of these can be resolved relatively quickly, but if you wait until the last minute before due dates, the chances of these glitches affecting your success are greatly increased. Please plan appropriately. If a problem occurs, it is essential you take immediate action to document the issue so your instructor can verify and take appropriate action to resolve the problem. Most issues in Canvas can be resolved by clicking on the “Help” tab located on the menu bar.

When a problem occurs, click “Help” to:

- Report a Problem
- Live Chat with Canvas Support
- Search Canvas Guides

## **Additional Technical Support**

1. Contact the eLearning Success Advisor for assistance: (561) 297-3590
2. If you can, make a Print Screen of the monitor when the problem occurs. Save the Print Screen as a .jpg file. If you are unfamiliar with creating a Print Screen file, see Print Screen instructions.
3. Complete a Help Desk ticket. Make sure you complete the form entirely and give a full description of your problem so the Help Desk staff will have the pertinent information in order to assist you properly. This includes:

- a. Select “Canvas (Student)” for the Ticket Type.
  - b. Input the Course ID.
  - c. In the Summary/Additional Details section, include your operating system, Internet browser, and Internet service provider (ISP).
  - d. Attach the Print Screen file, if available.
4. Send a message within Canvas to your instructor to notify him/her of the problem. Include all pertinent information of the incident (2b-d above).
  5. If you do not have access to Canvas, send an email to your instructor with all pertinent information of the incident (2b-d above).
  6. If you do not have access to a computer, call your instructor with all pertinent information of the incident. If he/she is not available, make sure you leave a detailed message.
  7. If you do not hear back from the Help Desk or your instructor within a timely manner (48 hours), it is your responsibility to follow up with the appropriate person until you obtain a resolution.

## AI Language Specific To This Course

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- **AI Prohibited:** The use of AI to assist in any work assigned in this specific course is prohibited.

## Communication Policy

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### Expectations for Students

#### Announcements

You are responsible for reading all announcements posted by the instructor/TA. Check the course announcements each time you log in.

#### Email/Video Conferencing

You are responsible for reading all your course email and responding in a timely manner.

#### Course-Related Questions

Post course-related questions to the FAQ discussion board. This allows other participants with the same question to benefit from the responses. Also, make sure you review this forum prior to posting a question. Someone may have already asked and answered the question in previous posts.

#### Instructor's/TA's Plan for Classroom Response Time & Feedback

### **Email/Video Conferencing Policy**

Except for weekends and holidays, the instructor will typically respond to email (Canvas inbox or FAU email) within 48 hours. You should ask course-related questions in the FAQ discussion board. If you have questions of a personal nature, you should email the instructor.

### **Assignment Feedback Policy**

The instructor/TA will provide feedback on submitted assignments within one week of the submission date. Some assignments may require a longer review period, which the instructor/TA will communicate to you.

### **Course-Related Questions Policy**

Except weekends and holidays, the instructor/TA will generally answer questions within 48 hours. **Electronic**

### **Communication Policy**

In addition to the University's policy, please consider the following:

- Privacy, confidentiality, and security in all electronic communications.
- All electronic communication resources must be used for the course and in alignment with to the University mission.
- Prohibited use of false identity, false identity pseudonyms, or anonymous (sender's name or electronic identification is hidden).
- Access without consent.
- Disruption of services including introducing computer contaminants (viruses).
- Harassment of any kind.

Please see the Office of Information Technology's policies on Cyber Security Awareness.

**The instructor reserves the right to adjust this syllabus as necessary.**