# College of Staten Island Course : CHM 117
# Section 2076

## INTRODUCTION TO COURSE AND INSTRUCTOR

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| **Semester** Summer 2022 | **Program/Department Chemistry** |
| **Course Name** CHM 117 | **Instructor Name** Rema Balambika |
| **Credits and Hours** 1 credits, 2 hours | **Office Location** 6S 332 |
| **Mode of Instruction** In Person | |
| **Time** M-Th 11 AM – 12:40 PM | **E-Mail** rema.balambika@csi.cuny.edu |
| **Location** 6S 247 | **Telephone** 718 982 4091 |
| **Website:** See instructions below on how to use Blackboard collaborate | **Faculty Office Hours Thursday** after lecture class or by appointment |
| *If there are questions or concerns that you have about this course that you and I are not able to resolve, please feel free to contact the Chair of the department to discuss the matter.* | |
| **CHAIR/PROGRAM DIRECTOR'S NAME** | Qiao Sheng Hu |
| **DEPARTMENT NAME** | Chemistry |
| **CHAIR/PROGRAM DIRECTOR'S EMAIL** | QiaoSheng.Hu@csi.cuny.edu |
| **DEPARTMENT/PROGRAM PHONE NUMBER** | 718 982 3900 |

## COURSE DESCRIPTION AND PRE/COREQUISITES

2 laboratory hours; 1 credit. Laboratory experiments concerned with the synthesis, isolation, and purification and analysis of a variety of organic and biochemical compounds of the types considered in CHM 116. (scientific analysis). (STEM). Prerequisites: CHM 110 and CHM 111. Corequisite: CHM 116.

The following rules apply for the CHM 117 lab.

## REQUIRED COURSE MATERIALS (REQUIRED)

### Textbook.

Please purchase the lab manual (see details along with the schedule ) from the CSI bookstore. We will also use the power point slides and hand outs which will be posted on the blackboard. The experiments will be modified according to the addendum posted on blackboard.
Laboratory Experiments for Introduction to General, Organic and Biochemistry. Frederick A Bettelheim, Joseph M. Landesberg, 8th Edition-Custom Edition-Brooks/Cole-Cengage Learning. ISBN 9781305010895.
The book is a custom edition available from the CSI Book store (See below).
https://csi.textbookx.com/institutional/index.php

## Description and Student Learning Outcomes

Students learn to perform experiments that crucial chemical concepts discussed in lectures and highlight current interpretations of experimental data, based on modern lab techniques.

## Learning objectives /Course Goals

(1) The student will learn how to work safely in a chemical laboratory
(2) The student will demonstrate knowledge of the use of chemical experimental setups
(3) The student will be able to collect and analyze data
(4) The student will communicate his or her findings by writing concise reports

**Course Meetings:** The labs will meet person at 6S 247. A powerpoint for the class will be posted before the class.

## COURSE REQUIREMENTS/ASSIGNMENTS

Lab reports for the classes will include data, calculations if any, determination of unknown and answers to post lab questions. Reports are needed for alternating labs in the summer session. The lowest grade will be dropped. If you miss a lab, you cannot submit a report for that lab but will count as a dropped report. Late reports carry a penalty of 30 points per day, but if you are absent for a legitimate verifiable emergency, you can bring the report to the next class.
**If your report is the same as someone else's or the same words as an online resource you will get zero for that report.**

## Exams

There will be two exams. Tentative dates for the exams Jul 12th and 21st.
**No make-up exams** will be arranged.

## Attendance:

* It is your responsibility to attend the class on time. **If you are absent from class, it is your responsibility to check on announcements made while you were away.**
* No make-up labs, quizzes and exams will be arranged.
* Missing two or more labs (for any reasons) will result in F for this course.

## Safety and Cleanliness:

Safety is extremely important in chemistry laboratory. To be safe, you should be aware of the safety policies and practices posted with the handouts.
The following apply to in person labs. You need to follow the safety rules and regulations all the time while you are in lab. **After your instructor completes the lecture, you will need to wear safety goggles at any time during the lab session**. You will be expelled from the lab if you do NOT comply with this safety rule. Reading the procedures carefully before you enter the lab is extremely important for you to prevent any unnecessary accidents and property damages. Attending the lecture is mandatory because the lab instructor will provide important safety issues for each lab.
The students must wear protective clothing and closed toe shoes.

**Attitude:** Disruptive behavior is unacceptable in the lab, and will NOT be tolerated, such as latecomers, noisy devices, inconsiderate behavior, and talking during lectures, etc.

## Grading Policy and Evaluation

50% Exams
45% Lab reports
5% Attendance (includes not being late), skills, attitude and safety. If you are consistently late or missing from the lab mid experiment you will not get credit for this part.

**The grading policy above is subject to change.**

## COURSE CALENDAR/SCHEDULE

Exam 1 will include days 1-6 and will be on July 12th.
Exam 2 will include days 7-13 and will be on Jul 21st.

The schedule is subject to change.

**Lab Reports** are due on the day after the lab is done.
Report 1, Classification and identification of hydrocarbons due on Jul 5th
Report 2: Classification and Identification of Alcohols and Phenols Jul 7th
Report 3: Properties of Carboxylic acids and Esters Jul 11th
Report 4: Properties of Amines and Amides July 14th
Report 5: Carbohydrates July 18th
Report 6: Analysis of Lipids July 20th

Please complete the data sheets and assigned postlab questions for the lab report.

## CUNY POLICY ON ACADEMIC INTEGRITY

Academic dishonesty is prohibited in The City University of New York. Penalties for academic dishonesty include academic sanctions, such as failing or otherwise reduced grades, and/or disciplinary sanctions, including suspension or expulsion. This policy also defines example of academic dishonesty: cheating, plagiarism, obtaining unfair advantage, and falsification of

records and official documents. The read the full policy, please visit the following website: https://www.csi.cuny.edu/sites/default/files/pdf/privacy/cuny_academic_integrity.pdf

## Academic Honesty

All students must write their own lab report. Cheating in lab reports, quizzes or exams will result in a fail grade. The reports will be evaluated for plagiarism using SafeAssign. If your answers are the exact same words as someone else, you will get a zero for that report.

## REASONABLE ACCOMODATIONS AND ACADEMIC ADJUSTMENTS

The City University of New York, in compliance with Section 504 of the Federal Rehabilitation Act of 1973 ("Rehabilitation Act"), the Americans with Disabilities Act of 1990 ("ADA"), New York State Executive Law §296, and New York City Human Rights Law, provides qualified individuals with disabilities the opportunity to participate in programs, activities, or employment. For more information and access to the full policy please visit: https://www.csi.cuny.edu/about-csi/diversity-csi/office-diversity-compliance/reasonable-accommodations-and-academic-adjustments

## STUDENTS WITH DISABILITIES

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe that you have a disability requiring an accommodation, please contact the Center for Student Accessibility at 718.982.2510/ CSA@csi.cuny.edu. For more information please visit: www.csi.cuny.edu/csa/.

## Campus (Cix) Email

Students are expected to check their campus (cix) email regularly. Students must recognize that certain communications, may be time-sensitive, and they may be required to monitor email on a more frequent basis than determined by instructional needs. If students have issues accessing their campus (cix) email please email the helpdesk@csi.cuny.edu or visit the Virtual Computer Lab.

## Tutoring and Academic Assistance

The College offers tutoring to students, free of charge. For a complete list of the Tutoring Centers please

visit https://www.csi.cuny.edu/students/academic-assistance/tutoring

## Technical Requirements

You should have an access to Blackboard. Students are required to have regular, reliable access to a computer with a stable broadband Internet connection to use the accessibility features in Blackboard Collaborate web conferencing.

## Technical Help for Blackboard

If you need help with Blackboard and other technology required for the course, please contact Office of Information Technology Services HelpDesk by email: Helpdesk@csi.cuny.edu, phone: 1-718-982-HELP (4357) or website: Help Support and Resources

## Recording of Lecture:

Students who participate in any online part of this class or office hour with their camera on or use a profile image are agreeing to have their video or image recorded solely for the purpose of creating a record for students enrolled in the class to refer to, including those enrolled students who are unable to attend live. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live

## Subject to change statement:

**The syllabus, course calendar, exam dates and grading policy are subject to change if deemed necessary by the instructor.**

# PRINCIPLES OF CHEMISTRY II LABORATORY

# LABORATORY OUTLINE - CHEMISTRY 117

**TEXT:** Laboratory Experiments For Introduction to General, Organic, and Biochemistry Frederick A. Bettelheim, and Joseph M. Landesberg, 8th Edition – Custom Edition – Brooks/Cole – Cengage Learning.

**ISBN: 97813050108895**

| WEEK | EXPERIMENT |
|---|---|
| 1 | CHECK-IN AND SAFETY ORIENTATION, LAB PROCEDURES<br>MOLECULAR MODEL EXPERIMENT *CSI HANDOUT* |
| 2 | CLASSIFICATION AND IDENTIFICATION OF HYDROCARBONS<br>ADDENDUM |
| 3 | QUANTITATIVE ANALYSIS OF VITAMIN C CONTAINED IN FOODS<br>ADDENDUM |
| 4 | CLASSIFICATION AND IDENTIFICATION OF ALCOHOLS & PHENOLS<br>ADDENDUM |
| 5 | CLASSIFICATION AND IDENTIFICATION OF ALDEHYDES & KETONES<br>ADDENDUM |
| 6 | PROPERTIES OF CARBOXYLIC ACIDS AND ESTERS<br>ADDENDUM |
| 7 | PREPARATION OF ACETYLSALICYLIC ACID (ASPIRIN)<br>ADDENDUM |
| 8 | PROPERTIES OF AMINES AND AMIDES<br>ADDENDUM |
| 9 | ANALGESIC DRUG ANALYSIS BY TLC<br>*CSI HANDOUT* |
| 10 | CARBOHYDRATES<br>ADDENDUM |
| 11 | ANALYSIS OF LIPIDS<br>ADDENDUM |
| 12 | ISOLATION AND IDENTIFICATION OF CASEIN<br>ADDENDUM |
| 13 | FACTORS AFFECTING ENZYMATIC ACTIVITY<br>*CSI HANDOUT* |
| 14 | CHECK – OUT |