



General Chemistry II - Lab

CHEM 1201A

Spring --- 2020



- **Lecturer:** Dr. Nick Thomas
- **Office:** Room: 310-I, Goodwyn Hall
- **Phone:** (334) 244-3327
- **E-mail:** nthomas@aum.edu
- **Lab Class Days:** Monday
- **Lab Times:** Starting 12:45 pm (period 4/5)
- **First Lab Class Day:** Monday, Jan 13, Room 305 Goodwyn Hall

Instructor's Web Site

www.getnickt.org site contains prelab information for most labs and **MUST** be read before coming to lab each day (the instructor does not use the Blackboard web site)

Course Description

CHEM 1201, General Chemistry II, Laboratory (1). Coreq., CHEM 1200.
Experiments to accompany lecture topics in CHEM 1200.

Text

A Laboratory Manual for General Chemistry II, by Arnold, Mahaffy, Rawlings, Richardson, and Thomas. Safety goggles must be obtained by the student. Goggles must be worn at all time during lab. Failure to do so will result in points being deducted from lab grade. It's a good idea to keep goggles in your bag or car so they are always on campus with you. Experiments are listed on the class timetable.

Course Objectives

The laboratory component of the course is designed to provide students with the opportunity to learn basic laboratory skills. Lab meets for the first time Monday, Jan 13 (at 12:45 pm, Room 305 Goodwyn Hall) for check-in.

Registration

All students must be officially registered. Contact the registrar's office if you have any doubts concerning your registration status.

Attendance

Students have an obligation to attend all labs and to be ON TIME. Labs will begin promptly at 12:45 pm (period 4/5) on Mondays in room 305 Goodwyn Hall. Students will have points deducted from lab if more than 15 min late.

Note: Unless you have a pending emergency please switch off cellphone ringers in lab as they are very distracting to all.

Assistance

Office hours will be posted on the instructor's office door and web site. Additional appointments may be made with the instructor. The Instructional Support Lab (203G) can also provide tutoring.

Special Needs

Students who require special attention should contact the AUM Center for Disability Services. *AUM attempts to make reasonable accommodations to meet the special needs of its disabled students.*

Grading

The laboratory grade will be based on the average grade of 9 written laboratory reports (the lowest of 10 being dropped). Each lab is graded out of 10. If a lab is missed FOR ANY REASON, it will automatically be the dropped lab. It will not be possible to make up any other missed labs and a grade of zero will be given for all other missed labs. In addition, there is an overall lab assessment (OAL) grade (out of 10 points). This is based on arrival to lab on time, wearing lab goggles, adhering to general safety rules, lab technique, participation in lab, etc. Total points for lab = 100 (90 for 9 labs + 10 for OAL)

Completed lab reports will be due at the beginning of the following lab class. Staple pages together and place lab reports in the folder provided on the front desk of the lab. Late labs will lose 1 point per day, no exceptions. Lab reports are to be neatly handwritten (not typed) or they will be returned ungraded.

Students will work in groups of TWO, but each student will record his or her own data and write up reports individually. Students may change lab partners each week.

Each student needs to purchase a copy of the lab manual.

Failure to hand in one or more labs will significantly affect your overall course grade. Retain your graded labs until the end of the semester.

Be sure to show all steps in calculations for full credit and give answers to the correct number of significant figures. Remember, you collect and share the

data with your lab partner, but each person must write and submit his or her own report. Lab write-up instructions are on the instructor's web site.

Important: If you miss a lab you CANNOT get results from someone else and submit a report. You must complete a lab yourself to get credit. Also, once graded labs are returned to the class, late labs will NEVER be accepted. Nor can you turn up to a lab late and expect to join a lab group that is already partly completed. In such cases, you will be required to begin and complete the lab by yourself (if you are more than 20 min late to lab, you will NOT be permitted to start the lab).

Overall course grades will be based on the following scale:

A = 90-100%; B = 80-89%; C = 65-79%; D = 50-64%; F < 50%

Lab Write-up

Details provided under on the web site under the General Chemistry II section Lab Reports link.

Withdrawal

If you withdraw from this class during the semester, our department requires that you must also withdraw from CHEM 1200.

Learning Outcomes

Learning Outcomes: After completion of this course, students will be able to analyze:

1. Methods to safely conduct basic chemical experiments in a modern laboratory
2. The handling and use of routine laboratory equipment, glassware and chemicals
3. Techniques for making accurate chemical measurements.