

## CH-201L General Chemistry for Nursing

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**Instructor:** Angelique Showman  
**Section:** -01 Th 14:30 – 17:20 Henry Hall L10  
-02 F 11:30 – 14:20 Henry Hall L10  
-04 W 18:00 – 20:50 Henry Hall L8  
**Office:** WSC 105  
**Phone:** 808-739-8368  
**Email:** angelique.showman@chaminade.edu  
**Office Hours:** T/Th 08:30 - 10:30  
**Lab Manual:** Handouts on eCollege

### Course Description:

Concurrent registration in CH 201 lecture is required. The lab section is designed to enhance your understanding of scientific methods and concepts by bringing a practical understanding of chemistry through hands-on experience in different techniques.

### Safety Requirements:

Students are *required* to practice safety precautions to include wearing safety glasses; closed toed, full-coverage shoes; and lab coats while performing experiments. Long pants are recommended. If you have long hair, it is recommended to tie it back away from the face; required when we are using Bunsen burners. Working in a lab can be messy, so consider wearing very casual attire in case it gets soiled during laboratory work. Only registered students will be allowed in the laboratory. For your safety, food and drink including chewing on gum or candy is not permissible in the lab. Avoid applying cosmetics or touching your hands to your face anytime you are in lab.

### Course Requirements:

A scientific hand-held calculator with log function.  
Access to Word/Excel or other word processing and spreadsheet program.  
eCollege ([chaminade.ecollege.com](http://chaminade.ecollege.com))  
Twitter.com

### Prerequisites:

BI 151/151L and BI 152/152L.  
MA 107 or equivalent with grade of C or better.

## **Student Conduct:**

Please refer to the Student Handbook for the CUH policies on Classroom Behavior and Academic Dishonesty.

## **Music Devices and Cell Phones:**

The use of music devices, cell phones, smart phones, PDAs (personal digital assistant), pagers or any other electronic device with the potential to make noise is prohibited during lab.

**Headphones are not permitted; wearing headphones in lab is a safety issue!** These devices must be turned off or placed on silent (not vibrate) during the entire lab time. During quizzes/exams, these devices need to be turned off and stored with me until completion of the quiz/exam. If during a quiz/exam, your electronic device makes noise (this includes vibrating), you may be asked to turn in your exam for a grade of zero and leave the room while the rest of the class finishes. The use of any other electronic device other than an approved scientific calculator during the quiz/exam will be considered a form of academic dishonesty and will result in a failing grade for that assignment. Students who cannot comply with this rule will be asked to leave class. Please refer any questions to the Dean of Natural Sciences and Mathematics. All this being said, sometimes you will be permitted to use the camera on your phone or if you have a tablet, certain apps will be allowed; however, this is a privilege and anyone caught doing anything other than lab work on these devices will ruin it for everyone and lose participation points for that lab. If you are interested in going paperless and have a tablet device, see me for instructions.

## **ADA Accommodations:**

Students with special needs who meet criteria for the Americans with Disabilities Act (ADA) provisions must provide written documentation of the need for accommodations from the CUH Counseling Center (Dr. June Yasuhara; phone 735-4845) by the end of week three of the class, in order for the instructor to plan accordingly. Failure to provide written documentation will prevent your instructor from making the necessary accommodations. Please refer any questions to the Dean of Students and review the procedures at [http://www.chaminade.edu/student\\_life/sss/counseling\\_services.php](http://www.chaminade.edu/student_life/sss/counseling_services.php).

## **Course Expectations:**

Students are expected to set up and perform chemistry-based experiments, while adhering to laboratory safety precautions set forth. Most experiments include a lab handout; lab handouts will be provided on eCollege. Pre-lab questions are due at the beginning of lab; post-lab questions need to be completed by the following lab as well as any calculations, etc. from these handouts. Students will be assigned lab partners, which they will keep through the entire semester unless otherwise instructed by me.

Additionally, students will be required to complete one lab report as a group project; participation as rated by the students in your group will be factored in to your final grade. As this is a college course, you are required to use a computer equipped with Word, Excel or other

word processing/spreadsheet software. Lab reports are to be typed and include tables and figures as appropriate; hand written lab reports will not be accepted. Lab reports will be turned in via eCollege in a Word document format (.doc or docx) or Pages format; figures and tables can be turned in as either PDFs or Excel formats (.xls or.xlsx) if you do not know how to embed them in the word-processing document (or you can come see me and I am happy to show you how). **If the lab report is sent to me in a different format than above and I have to request a new document, it will be considered late and points will be deducted.**

Lab reports will have the following format:

**Abstract** – brief summary of the experiment including results

**Introduction** – an introduction into the experiment, the theory behind it and state the hypothesis (citations required).

**Methods and Materials** – briefly what you did and used to conduct the experiment.

**Results** – tables and figures of the result and a short paragraph stating the results.

**Discussion/Conclusion** – explanation of the results in relation to the hypothesis; discussion of anything that occurred outside of what was expected.

### Attendance:

Attendance during all labs is **REQUIRED**. An excess of more than one (1) absence is unacceptable and will result in a non-passing grade in the course; there is no make-up assignment for lab experiments; however, you are still responsible for understanding the lab experiment you missed, as you will be tested on it. Under exceptional circumstances, alternative assignments in addition to the lab write-up may be available with a written request accompanied by a written verification for the reason of the absences. Experimental results will be provided by the instructor and consists of the raw data only, which can be used to complete the results, questions, and discussion portions of your lab-write up. The objectives, materials, hazards, and procedure can be completed with the information found in the laboratory handouts.

### Grading:

The course grade will be based on the following:

*Grading Scale:*

30% = Experiment Handouts  
15% = Worksheets  
20% = Laboratory Report  
20% = Lab Quizzes  
15% = Attendance and Attitude  
(following safety precautions,  
participation, etc.)

Letter grade: A = 90 - 100%  
B = 80 - 89%  
C = 70 - 79%  
D = 60 - 69%  
F = 59% and below

**Tentative Lab Schedule and Important Dates**  
**(Subject to change; announcements will be made in lecture.)**

<b>Week</b>	<b>Dates</b>	<b>Description</b>
1	8/27-28	Lab Check-in, Lab Safety, Lab Equipment, Quiz Worksheet 1: Lab Safety
	8/29	Fall Spiritual Convocation: Lab Start 13:30 Lab Check-in, Lab Safety, Lab Equipment, Quiz Worksheet 1: Lab Safety
2	9/3	<b><i>Add-Drop Last Day</i></b>
	9/3-5	Measurements and Significant Figures
3	9/10-12	Conversions
4	9/17-19	Density and Specific Gravity ( <i>Lab Report</i> ) Worksheet 2 Start: Compounds and Their Formulas
5	9/24-26	<b>Lab Quiz 1</b> Energy and Specific Heat
6	10/1-3	Worksheet 2 Finish: Compounds and Their Formulas <b><i>Density Lab Report Due by 11:59 p.m.</i></b>
7	10/8-10	Worksheet 3: Organic Chemistry
8	10/15-17	<b>Lab Quiz 2</b> Moles and Chemical Formulas
9	10/22-24	Chemical Reactions Reaction Rates
10	10/29-31	Gas Law
11	11/5-7	<b>Lab Quiz 3</b> Precipitation Reactions
	11/7	<b><i>Last Day to Withdraw</i></b>

<b>Week</b>	<b>Dates</b>	<b>Description</b>
12	11/12-14	Acid-Base
13	11/19-21	<b>TBD</b>
14	11/26-28	<i><b>NO CLASS: Thanksgiving</b></i> Take-home Worksheet 4
15	12/3-5	<b>Lab Quiz 4</b>