

## CH-103-60-2 College Chemistry

---

<b>Term:</b>	Spring Evening 2016
<b>Location:</b>	Pearl Harbor
<b>Time:</b>	Wednesday, 1730 – 2140
<b>Location:</b>	Pearl Harbor, Room PH
<b>Instructor:</b>	Ms. Showman
<b>Email:</b>	angelique.showman@chaminade.edu
<b>Textbook:</b>	Timberlake & Timberlake, <b>Basic Chemistry Third Edition or higher</b>

### Course Description

A one semester introduction to chemistry for students who wish to strengthen their understanding of basic concepts in chemistry before beginning the general chemistry sequence or for students working towards associate degrees. Emphasis will be placed on problem solving using algebraic methods. Topics covered will include: chemical measurements, properties of atoms and molecules, chemical reactions, chemical calculations, acids and bases, properties of gases and thermochemistry.

### Course Objectives

This course is designed to familiarize you with the concepts of chemistry that may be used as a basis for other more intensive courses in other science fields.

### Course Requirements

eCollege ([chaminade.ecollege.com](http://chaminade.ecollege.com))

Scientific hand-held calculator with log function

Timberlake & Timberlake, **Basic Chemistry Third Edition or higher** (Highly Recommended: Timberlake & Timberlake, Basic Chemistry Third Edition Study Guide). I will be utilizing the third edition, which is no longer available to our bookstore but higher editions are fine too. You may still be able to pick up used versions of the third edition online.

### Class Policies

**Attendance:** If you miss a lecture, please send an email explaining your absence. If you miss a midterm exam, a written explanation (i.e. Doctor's note, letter from your commander if duty related, etc.) is required in order to make up the exam; unexcused absences will result in a score of zero for that exam. Exams must be made up within a few days of the scheduled exam and may require you to come to main campus to complete it. Quizzes **cannot** be made up at another time. Any student who does not take the final exam will fail the course.

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

***Music Devices and Cellphones:*** As a courtesy to other students and the instructor, 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 all Natural Science and Mathematics classes at Chaminade, unless specifically permitted by your instructor. These devices must be turned off or placed on silent (not vibrate) during the entire lecture time. During quizzes and exams, these devices need to be turned off; if during an 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 exams or quizzes 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.

## **XI. Additional Departmental and University Policies**

### **1. Electronic Devices**

Use of music devices and cell phones is prohibited during all Natural Science and Mathematics classes at Chaminade, unless specifically permitted by your instructor. Use of cellphones and music devices in laboratories is a safety issue. In addition, use of cellphones and music devices in any class is discourteous and may lead to suspicion of academic misconduct. Students who cannot comply with this rule will be asked to leave class and may be subject to laboratory safety violation fines. You will be asked to leave class and marked absent if you do not comply. This will negatively affect your grade. Please refer any questions to the Dean of Natural Sciences and Mathematics.

### **2. ADAA Statement**

2.1 Pursuant to several federal and state laws, including the Americans with Disabilities Act of 1990, as amended by the ADA Amendments Act of 2008, and Section 504 of the Rehabilitation Act of 1973, all qualified students with disabilities are protected from discrimination on basis of disability and are eligible for reasonable accommodations or modifications in the academic environment to enable them to enjoy equal access to academic programs, services, or activities. If a student would like to determine if they meet the criteria for accommodations, they should contact the Counseling Center at 808-735-4845 for further information.

### **3. Attendance & Tardiness**

3.1 Students are expected to attend regularly all courses for which they are registered. Students should notify their instructors when illness or other extenuating circumstances prevents them from attending class and make arrangements to complete missed assignments. Notification may be done by emailing the instructor's Chaminade email address, calling the instructor's campus extension or by leaving a message with the instructor's division office (Natural Science and Math 1 (808) 440-4204). It is the instructor's prerogative to modify deadlines of course requirements accordingly. Any student who stops attending a course without officially **withdrawing**, may receive a failing grade.

3.2 Unexcused absences equivalent to more than a week of classes may lead to a grade reduction for the course. Any unexcused absence of two consecutive weeks or more may result in being **withdrawn** from the course by the instructor, although the instructor is not required to **withdraw** students in that scenario. Repeated absences put students at risk of failing grades.

3.3. Tardiness – failure to be on time for class may result in loss of participation points and even quiz/exam points as additional time will not be given, nor will makeup quizzes be given for students who are tardy.

#### 4. Policy on Make-Up Tests

See syllabus, under Attendance for Instructor's policy on make-up exams/quizzes.

#### 5. Policy on Communication

5.1 The University provides a Chaminade email address for all students. Official Chaminade communications will be sent to the students' Chaminade email address and instructors will use only this email to communicate with students. It is the responsibility of the student to check their email frequently. Report email-related problems to the Helpdesk at 808-735-4855 or [helpdesk@chaminade.edu](mailto:helpdesk@chaminade.edu).

#### 6. Laboratory Safety Information

The following guidelines are established to provide instructions in maintaining safety for students, staff, and faculty while using any of the science laboratories at Chaminade University. The Division of Natural Sciences and Mathematics (NSM), along with the University Environmental Safety Office are responsible for enforcing the regulations set forth in the current Student Handbook. Queries should be addressed to: Dean of Natural Sciences and Mathematics (808) 440-4204; Environmental Safety Officer (808) 739-4811

#### 7. Title IX Declaration

Chaminade University of Honolulu recognizes the inherent dignity of all individuals and promotes respect for all people. Sexual misconduct, physical and/or psychological abuse will NOT be tolerated at CUH. If you have been the victim of sexual misconduct, physical and/or psychological abuse, we encourage you to report this matter promptly. As a faculty member, I am interested in promoting a safe and healthy environment, and should I learn of any sexual misconduct, physical and/or psychological abuse, I must report the matter to the Title IX Coordinator. Should you want to speak to a confidential source you may contact the following:

- Chaminade Counseling Center| 808 735-4845.
- Any priest serving as a sacramental confessor or any ordained religious leader serving in the sacred confidence role.

#### 8. Academic Honesty

Students are expected to have read and to abide by the "Student Rules of Conduct" which are available in your copy of Chaminade University's Student Handbook. Cheating in the form of plagiarism, collusion, deception and will not be tolerated and will negatively affect your grade.

## Opportunities for Help

If you need assistance with the material for this course, come to my office for help! I have set office hours, but I am often available at other times. Feel free to drop by or send me an email [angelique.showman@chaminade.edu](mailto:angelique.showman@chaminade.edu) (using your Chaminade account; do **NOT** email me through eCollege!) to make a specific appointment. In addition, there are Chemistry tutors available at the AAP. ***Do NOT wait until the last minute to get help!***

## eCollege

I will be utilizing eCollege primarily as a document depository. I will be uploading slide handouts for the lectures by the Monday before the first lecture date for you to print out (if you choose) and follow along during the lecture. In addition, I urge you to use the discussion feature to discuss homework problems or other questions you may have regarding the material. I will be monitoring any discussions, so I can provide additional information and assistance if needed. Periodically, I will post current points and grades on eCollege (usually following grading of exams).

## Grading and Exams

**Exams:** Two midterms and one final comprehensive exam. The final exam will focus mostly on the final chapters covered in the class; however, knowledge and skills developed in earlier chapters are the basis for understanding of the material presented later in the course. Scientific hand-held calculator is allowed. No other electronic devices are permissible including cellular or smart phones (iPhone, Blackberry, etc.).

**Midterm Exams:** You have one hour and 30 min to complete these exams.

**Final Exam:** You have the entire class period to complete the final exam.

**Homework:** Questions will be assigned during each class covering the material from the lecture. The concepts covered in the questions will help you to understand the material and will be the basis of your quizzes but will not be for credit.

**Worksheets:** Worksheets may be assigned throughout the course to help you better prepare for the exams and will be available on eCollege. Keys may or may not be provided, but you are always able to ask me for help. Worksheets will be turned in at the beginning of exam day for credit. Credit will be given for completed worksheets regardless of the answers correctness. Worksheets will not be accepted past the due date. Worksheets are worth 50 points.

**Quizzes:** There will be a quiz on last week's material at the beginning of most class with the exception of exam dates. The lowest quiz scores will be thrown out for your final grade. Quizzes cannot be made up and tardiness or absence results in a score of zero and thus that will be the lowest score to be thrown out at the end of the semester.

**Grading:** The course grades will be based on the following scale (575 total points). Any changes will be announced in class.

Participation and Attendance – 50 points

Worksheets – 50 points

Quizzes – 75 points

Applied Chemistry Paper – 50 points

Midterm exams – 200 points (100 each)

Final exam 150 points

Letter grade: A = 90 - 100%

B = 80 - 89%

C = 70 - 79%

D = 60 - 69%

F = 59% and below

## Tentative Class Schedule and Important Dates

Lecture 1 (Apr 6):	Chapter 1 Chemistry in Our Lives Chapter 2 Measurements
Lecture 2 (Apr 13):	Quiz 1: Chapters 2 Chapter 3 Matter and Energy Chapter 4 Atoms and Elements
Lecture 3 (Apr 20):	Quiz 2: Chapters 3 and 4 Chapter 5 Electronic Structure and Periodic Trends Chapter 6 Inorganic and Organic Compounds: Names and Formulas
Lecture 4 (Apr 27):	<b>Chemicals Selected for <i>Food Inc.</i> Paper</b> <b>Midterm I:</b> Chapters 2, 3, 4, 5, 6 Chapter 7 Chemical Quantities
Lecture 5 (May 4):	Quiz 3: Chapter 7 Chapter 8 Chemical Reactions of Inorganic and Organic Compounds Chapter 9 Electronic Structure and Periodic Trends
Lecture 6 (May 11):	Quiz 4: Chapter 8 and 9 Chapter 10 Molecular Structure: Solids and Liquids Chapter 11 Gases
Lecture 7 (May 18):	<b>Midterm II:</b> Chapters 7, 8, 9, 10, 11
Lecture 8 (May 25):	Chapter 12 Solutions Chapter 13 Chemical Equilibrium
Lecture 9 (Jun 1):	Quiz 5: Chapter 12 and 13 Chapter 14 Acids and Bases Chapter 15 Oxidation-Reduction
Lecture 10 (June 8):	<b>Final Exam:</b> All with emphasis on Chapters 12, 13, 14, 15

**Class schedule is subject to change and will be announced in class as needed.**