



UNIVERSITY OF
CENTRAL FLORIDA

CHM 2046, CHEMISTRY FUNDAMENTALS II

Department of Chemistry, College of Science

- Instructor:** Dr. Vasileios Anagnostopoulos
Office: Research I Building, Room 255
Email: Vasileios.Anagnos@ucf.edu
- Class Meetings:** Monday, Wednesday, Friday 10:30am – 11:20am in CSB 0101
- Office Hours:** Monday, Wednesday, Friday: 9:00 am – 10:20 am
Or by appointment
- Course Objective:** To provide a basic understanding of the fundamental concepts of intermolecular forces, solids and solutions, chemical kinetics and equilibrium, acids and bases, ionic equilibrium, thermodynamics and electrochemistry
- Required Materials:** Textbook: ***Chemistry: A Molecular Approach (4rd Edition)*** by Nivaldo J. Tro
Scientific calculator: No graphing or programmable calculators will be allowed during exams
Pink **ScanTron** test form with UCF logo for each exam

| | | |
|-------------------------|-----------------------------|-------------------|
| Grading Summary: | 5 Tests (100 points each) | 500 points |
| | 1 Final Exam (cumulative) | 200 points |
| | 4 Quizzes (25 points each)* | <u>100 points</u> |
| | Total | 800 points |

- * Four (4) quizzes worth 25 points each will be given during the semester. All quizzes will be given through Webcourses.
- All exams will be cumulative with a computer-graded multiple-choice format.
- Your lowest exam grade will be replaced by the percentage grade of your final exam if higher.
- **No makeup quizzes or exams will be given**, except for university-sponsored events, jury duty, or military service.

Exams:

For each exam the student should bring:

- Their student ID
- A clean, flat, pink ScanTron test form with the UCF logo
- Pen/pencil
- Scientific calculator – no graphing or programmable calculators will be allowed during exams. Use of any electronic devices (such as tablets, phones, iPods, laptops) during exams is strictly prohibited. Any use of such devices will be considered cheating and result in a grade of 0 for that exam.

Grading Scale:

The +/- system will not be used in this class. Grade distribution will be as follows:

| | |
|----------------|-----|
| 90.00 - 100% | A |
| 80.00 - 89.99% | B |
| 70.00 - 79.99% | C |
| 60.00 - 69.99% | NC* |
| 0 – 59.99% | F |

You can access your scores at any time using the Grades section of Webcourses@UCF.

*The NC (No Credit) replaces the typical “D” grade but does not affect your GPA. If you receive an NC grade, the course will have to be repeated if needed for your major. Repeating the course does not make the NC grade disappear from your transcripts.

Make-up Policy: If you miss an exam, the percentage score from your final exam will be substituted for ONE missed exam. Quiz make-ups will not be given. See the instructor in advance if you will miss an exam or quiz for a university-sponsored event, jury duty, or military service.

Attendance Policy: Attendance in class will not be recorded, but is highly recommended. However, you must be present to take exams.

Webcourses: Webcourses is an online management system (accessed through my.ucf.edu and then the “Online Course Tools” tab) that will be used to take quizzes and access grades and additional information for the course.

Student Required Academic Activity: All instructors/faculty are required to document students’ academic activity at the beginning of each course. In order to document that you began this course, please complete the academic activity by the end of the first week of classes or as soon as possible after adding the course. Failure to do so may result in a delay in the disbursement of your financial aid. **Take the academic activity quiz in Webcourses by 5:00 pm EST on Friday, August 24, 2018.**

Student Accessibility: This class is designed to be an accessible and welcoming experience for all students, including those with accessibility needs that may impact learning in this class. If anyone believes the design of this course poses barriers to effectively participating and/or demonstrating learning in this course, please meet with me (with or without a Student Accessibility Services (SAS) accommodation letter) to discuss reasonable options or adjustments. During our discussion, I may suggest the possibility/necessity of you contacting SAS (Ferrell Commons 85; 407-823-2371; sas@ucf.edu) to talk about academic accommodations.

You are welcome to talk to me at any point in the semester about course design concerns, but a week should be allowed for any necessary modifications to take place.

Please contact me if you are having difficulty accessing the instructional media and materials for this class.

Diversity and Inclusion:

It is my goal to promote a safe, respectful, and inclusive classroom environment and to encourage each student's unique voice, perspective, and presence. If there are aspects of the design, instruction, and/or experience within this course that results in barriers to your inclusion or accurate assessment of achievement, please contact me and/or Student Accessibility Services.

Ethics:

As reflected in the UCF creed, integrity and scholarship are core values that should guide our conduct and decisions as members of the UCF community. Plagiarism and cheating contradict these values, and are very serious academic offenses. Students are expected to familiarize themselves with and follow the University's Rules of Conduct (www.osc.sdes.ucf.edu).

Disclaimer:

The information in this syllabus may be changed at the instructor's discretion.

Schedule – CHM 2046-0002 Chemistry Fundamentals II – Fall 2018

*Student Academic Activity Quiz
Due Friday, Aug 24 on Webcourses*

| Chapter | Quiz | Test |
|-------------------------------------------------------|----------------|----------------|
| Chapter 11: Liquids, Solids and Intermolecular Forces | Aug 29 | |
| Chapter 12: Solids and Modern Materials | Sept 5 | |
| Chapter 13: Solutions | Sept 12 | |
| Chapter 14: Chemical Kinetics | | Sept 24 |
| Chapter 15: Chemical Equilibrium | | Oct 8 |
| Chapter 16: Acids and Bases | | Oct 22 |

| | | |
|--------------------------------------------|---------------|---------------|
| Chapter 17: Aqueous Ionic Equilibrium | | Nov 5 |
| Chapter 18: Free Energy and Thermodynamics | Nov 16 | |
| Chapter 19: Electrochemistry | | Nov 26 |
| Review – Fri Nov 30 | | |
| Final Exam 10:00 am – 12:50 pm | | Dec 3 |

** All quiz and exam dates are subject to change at the discretion of the professor

No class: Sept 3 (Labor Day)
 Nov 12 (Veterans Day)
 Nov 23 (Thanksgiving)