**CHM 130-04 and 130-05 Online course**

**Fundmental Chemistry**

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**Welcome to the exciting and amazing world of chemistry!**

**Contact:** The best way to contact me is through the above.  I will respond within 24 hours however I tend to get back to you much sooner.  Please write **"QUESTION"** in the subject line for me to see it through the sea of emails I receive.

**Canvas Announcements:**Communication from me about the course will always be in Canvas announcements.  **READ ALL CANVAS ANNOUNCEMENTS**

**The main web sites to use for this course:** Canvas - Through Canvas you will have access to the labs as well as the homework tests and quizzes in Pearson mylab and Mastering.

**COURSE DESCRIPTION AND PREREQUISITE:** General inorganic chemistry, scientific methods, and general laboratory procedures.  MAT 121 prerequisite.

**COURSE CONTENT:**

Will include:

1. Scientific Methods and metric system
2. Matter and Energy
3. Atomic structure, chemical formulas and equations
4. Molecules and Compounds
5. The Mole concept
6. Chemical composition
7. Chemical Reactions
8. Stoichiometry
9. Electron Configuration
10. Chemical bonding
11. Gases
12. Liquids, Solids, and Intermolecular Forces
13. Solutions
14. Acids and Bases
15. Chemical Equilibrium
16. Oxidation and Reduction
17. Nuclear chemistry

**COURSE OUTCOMES:**

Students will:

1. Develop a working knowledge of Scientific Methods
2. Communicate laboratory results in written form
3. Manipulate and use the metric system for measurements and analysis.
4. Explain basic atomic and molecular structures
5. Develop an understanding of various forms of stoichiometry
6. Demonstrate an elementary understanding of nuclear chemistry and radioactivity
7. Utilize basic laboratory techniques

**COURSE GOALS:** This course is one semester designed primarily to provide students preparing for careers in health-related professions with a basic knowledge of chemistry and a fundamental understanding of chemical processes that shape life and the environment.

**COURSE REQUIREMENTS:**

1. **Required:**

* Lecture Text: *Included in Pearsonmylabandmastering fee. If you would like have the physical text it is Introductory Chemistry; 6th Edition by Tro*
* Laboratory Manual: *No lab manual, the labs are located on Canvas in "Modules" tab and also through esciencelabs.com*
* Lab kit: Purchased through the CCC bookstore.
* It is expected that you will complete approximately 50 minutes of online instruction per week per credit hour, including, but not limited to, viewing animations, completing assignments, reviewing materials, and other associated coursework. You must log into the course on a consistent basis, submit work throughout the term and respond to messages sent by your instructor.
* The attendance Roll Call—I just check to make sure everybody is making progress.

1. **Access to CANVAS:**

* Canvas is the online course management system for CCC. Each student is expected to access their Canvas web page each day.
* Go to http://coconino.instructure.com; It will ask for your email address and password (our I.T. department can assist you with this step), then take you to your classes for the semester)

**Special Assistance:**If you find that you require special assistance during certain activities in this course (i.e. labs, exams, note-taking), you may contact Student Support Services to determine if you qualify for special assistance.

**Academic Dishonesty Procedure:**

**College Policy:**Academic dishonesty is a violation of the Student Code of Conduct as defined in Procedure 503-01. When a student commits an act of academic dishonesty, the instructor is responsible for determining the grade for the course or assignments. Incidents of academic dishonesty are reported to the Dean of Student development and Community Engagement for adjudication and follow up

**Instructor Policy:**The instructor does not tolerate cheating at all. If you are suspected of cheating, the instructor will contact you and discuss the situation.  If the instructor has evidence of your cheating, an administrative drop will be initiated immediately and you will be removed from the course.

**Student Rights and Responsibilities:**

a. Students must attend their classes during the first week of school or a grade of NS (no-show) will be recorded by their instructor. The instructor will record no shows on Tuesday of the second week of class.

b. Students will not receive refunds for classes in which they have received an NS grade. Students are financially and academically responsible for all courses that they do not drop by published deadlines.

c. Students must drop or withdraw from any class they do not wish to complete. The Office of Registration and Enrollment Services publishes instructions for students to follow when dropping or withdrawing from classes. Students are encouraged to discuss drop and withdrawal options with their academic advisor and the Office of Student Financial Aid (if a financial aid recipient).

d. Students have the right to appeal a grade of NS through the Office of Registration and Enrollment Services.

Reference: 303-02 Attendance Procedure

<https://www.coconino.edu/policies-and-procedures#300-399>

**FINAL EXAM POLICY:**See College Policy 303-04.

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| **GOAL (COURSE OUTCOMES)** | **COURSE CONTENT** | **ASSESSMENT** |
| Develop a working knowledge of Scientfic Methods | Scientific Methods, Hypothesis, and the Metric System | Homework, Quizzes, Exams, labs |
| Communicate Laboratory results in written and oral form. | Acids , Bases, and Titration | labs |
| Manipulate and use the metric system for measurement and analysis | Conversions and Dimensional Analysis | Homework, Quizzes, Exams, labs |
| Explain Basic atomic and molecular structures | Ionic, Covalent, and Hydrogen Bonding | Homework, Quizzes, Exams, labs |
| Nuclear Chemistry | Ionizing and Non Ionizing Radiation | Homework, Quizzes, Exams, labs |
| Stages of Matter | solids, liquids, gases | Homework, Quizzes, Exams, labs |
| Stoichiometry | le chatelier's principle, limiting reagent, theoretical yield | Homework, Quizzes, Exams, labs |
| Acids, Bases, and Titrations | pH, titration of acetic acid | Homework, Quizzes, Exams, labs |

Please read the below syllabus carefully as you are responsible for all information on this syllabus. If for any reason the syllabus changes, students will be notified by the instructor. You will notice there is a section for lab and a section for lecture.

**LAB PORTION OF SYLLABUS**

This is a combined Lecture and Lab course. You will locate your assignments in the Modules tab.

**Where to locate/complete labs and how to submit them -**See the Canvas announcements for specific instructions.

**Required photos for each** **lab**- See the Canvas announcement for required photos

**The lab portion of this course is worth 25% of your grade.**

**LECTURE PORTION OF SYLLABUS**

The lecture portion of the course is done through Pearson MyLab and Mastering.  All of the assignments will be in the “Modules” tab.

**Weighting**

Discussion 5%

Labs, safety and syllabus quizzes 25%

Homework 15%

Quizzes 15%

Exams 25%

Final 15%

**GRADING SCALE:**

100-90   A Excellent

89-80     B Exceeds Standard

79-70     C Meets Standard

69-60     D Below Standard

<60        F  Failure

W is withdrawal from course

**Good luck and enjoy the exciting and wonderful world of chemistry!**

Any changes to the syllabus will be noted in the announcements if that arises.