Introduction to General Chemistry, CHM 1025C, 4 Units

Science Department @ Valencia College, West Campus

Course Syllabus

Instructor: A. Tony Alabi, PhD. COURSE: CHM 1025C CRN: 24376

Office: AHS 307 Term: Spring 2018

E-mail: aalabi@valenciacollege.edu Class Meeting: Monday 5:30 – 8:15 pm

Office Hours: By appointment Class Location: AHS Building, Room 209

Lab Meeting: Thursday 5:30 – 8:15 pm Lab Location: AHS Building, Room 304

**Welcome to Introduction to General Chemistry**

**About the Course**

* **Prerequisites**: Minimum grade of C in High School Honors Algebra II or MAT 1033C or higher MAC prefix course. Prepares students without high school chemistry or with inadequate background for CHM 1045C. May not be taken for credit subsequent to earning C or better in CHM 1045C.
* **Catalogue Description of the Course**: Modern chemical theories used to develop understanding of fundamentals of inorganic chemistry and its applications. Emphasis on quantitative relationships, using dimensional analysis to solve problems. Laboratory experiences are integral part of the course.

**Course Overview**

Science allows us to learn much about the natural world. This course affords you the opportunity to understand science from chemist perspective. The course introduces students to scientific method, measurement, matter, atomic theory, periodicity, characteristics of chemical bonding, behavior of gases, thermochemistry, quantum mechanics theory, and laboratory techniques. To maximize students’ learning outcomes, lectures, chemical modelling, in-class group problem solving, and minute papers will be incorporated in the course. In-class quizzes will be given weekly that may include content from any of the previous lectures. Summary notes and announcement will be available to students via Blackboard.

**Required Text:**

Introductory Chemistry: Concepts and Critical Thinking, Charles H. Corwin, Custom Edition for Valencia College

ISBN #: 978-1-269-39146-7

**Laboratory Manual:**

Introductory Chemistry, Concepts and Critical Thinking, Corwin, 2nd Custom Edition for Valencia College

**Supplemental Materials:** Additional materials will be available via Blackboard.

**Evaluation and Grading**

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| **Grading Scale** |
| 900 - 1000 pts 90 - 100% A  |
| 800 - 899 pts 80 - 89% B |
| 700 - 799 pts 70 - 79% C |
| 600 - 699 pts 60 - 69% D |
|  0 - 599 pts 0 - 59% F |

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| **EXAMS 40%** |
| Exam 1 10%Exam 2 10% |
| Exam 3 10%Exam 4 10% |
| Final Exam 10%(Best 4 counts) |
| **QUIZZES 20%** |
| **In-Class Assignments** **10**% |
| **Homework**  **10**% |
| **Laboratory Reports 20%** |

**Point Distribution**

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| Exam 1 100 pts |
| Exam 2 100 pts |
| Exam 3 100 ptsExam 4 100 ptsFinal Exam 100 pts(Best 4 counts)Laboratory Reports 200 ptsQuizzes 200 pts |
| In-Class Assignments 100 pts |
| Homework 100 pts |
| Total: 1000 pts |

**Exams and Quizzes**

Twelve quizzes and twelve homework assignments will be given during the semester. The best ten quizzes and homework assignments count. Quizzes and Exams may include both multiple choice and written responses. Exam 1 will cover materials from unit 1, exam 2 will cover materials from unit 2, exam 3 will cover materials from unit 3, and exam 4 covers materials from unit 4. The final exam will be cumulative covering all the units. Students can drop the lowest exam.

**Make-up Policy**

No make up for homework assignments, quizzes, and exams. You have weekly homework assignments and weekly quizzes. Make up exam will only be granted for the second missed exam at the discretion and convenience of the instructor for college approved excuses. Prior authorization and appropriate documentation are required for make-up exam.

**Attendance and Tardy Policy**

Attendance and participation are essential for your success in this course! Students are expected to be in class and ready to learn at 5:30 pm. For any unexcused absence, student will lose all the points associated with in-class participation, quiz, and/ or exam given that day. Tardiness will result in a 1.0 point deduction from that day’s participation points. Leaving early will also result in a 1.0 point deduction from that day’s participation points. Texting and using the phone during class will result in 2.5 points deduction for that day’s participation points.

**Student Disability Accommodations**

Contact the office of students with disabilities for any course related accommodations.

*"Students with disabilities who qualify for academic accommodations must provide a Notification to Instructor (NTI) form from the Office for Students with Disabilities (OSD) and discuss specific needs with the professor, preferably during the first two weeks of class; accommodations will not be applied retroactively. The Office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities."*

*West Campus SSB, Rm. 102 Phone: 407-582-1523 Fax: 407-582-1326*

**Withdrawal Deadline and Policy**

“A student who withdraws from class before the **withdrawal deadline of Mar. 30, 2018** will receive a grade of “W.” A faculty member is permitted to withdraw a student from the faculty member's class up to the beginning of the final exam period, for violation of the faculty member's attendance policy, as published in the faculty member's syllabus. A student is not permitted to withdraw from this class after the withdrawal deadline; if you remain in the class after the withdrawal deadline, you can only receive a grade of A, B, C, D, F or I. An I grade will only be assigned under extraordinary circumstances that occur near the end of the semester. If you receive an I, the work missed must be made up during the following semester, at which time you will get an A, B, C, D or F. Failure to make up the work during the following semester will result in you getting a grade of F in the course. The professor will not withdraw any student for any reason; it is the responsibility of the student to withdraw themselves before the withdrawal deadline and to be aware of the date of the withdrawal deadline.”

**Student Help**

“*Valencia is committed to making sure all our students have a rewarding and successful college experience. To that purpose, Valencia students can get immediate help that may assist them with psychological issues dealing with stress, anxiety, depression, adjustment difficulties, substance abuse, time management as well as relationship problems dealing with school, home or work. Students have 24 hours unlimited access to the* ***BayCare Behavioral Health’s confidential student assistance program*** *phone counseling services by calling* ***(800) 878-5470****. Three free confidential face-to-face counseling sessions are also available to students.”* (Valencia Policy 4-07)

**Valencia College Core Competencies**

You will be given the opportunity to develop and practice four core competences that define the learning outcomes for a successful Valencia graduate as identified by faculty members. The four competences are Think, Value, Communicate, and Act.

1. ***“Think****- think clearly, and creatively, analyze, synthesize, integrate and evaluate in the many domains of human inquiry*
2. ***Value****- make reasoned judgments and responsible commitments*
3. ***Communicate****- communicate with different audiences using varied means*
4. ***Act****- act purposefully, effectively and responsibly.”*

**Electronic Devices**

When applicable, the use of electronic devices is strictly limited to course related information. Students must request a written permission via e-mail prior to taking photos or recording of any kind during any given lecture of CHM 1025C.

**Student Code of Conduct**

Students are expected to be in class ready to learn at 5:30 pm. Students are expected to work individually and as part of a group during in-class discussions and assignments. All cell phone ringers should be set to off during class time. Students may not keep their cell phones on their desks. Food consumption is not permitted in class. Students who engage in any prohibited or unlawful acts that result in the disruption of a class will be directed to leave the class. Violations of any classroom or Valencia rules may lead to disciplinary actions up to and including expulsion from Valencia.

**Alternative Arrangements for Pregnant Students**

*The laboratory environment often times will involve the use of and/or exposure to chemicals or other hazardous substances/equipment.  If you are pregnant or plan on becoming pregnant during this course and are concerned about your exposure to these chemicals or hazardous substances/equipment, please see your instructor to discuss possible alternative arrangements.  Students are also invited to contact Mr. Ryan Kane, Title IX Coordinator/Equal Opportunity Officer, 407-582-3421,* [*rkane8@valenciacollege.edu*](https://webmail.valenciacollege.edu/OWA/redir.aspx?SURL=LB9zMvs8LLQOnzTY3yLQe1RDL5P-ds6YJXujFmFPNr_uURndXKDSCG0AYQBpAGwAdABvADoAcgBrAGEAbgBlADgAQAB2AGEAbABlAG4AYwBpAGEAYwBvAGwAbABlAGcAZQAuAGUAZAB1AA..&URL=mailto:rkane8@valenciacollege.edu)*, regarding requests for alternative arrangements relating to pregnancy.*

**Academic Honesty Statement**

Each student is required to follow Valencia policy regarding academic honesty as stated in the Student Code of Conduct. All forms of academic dishonesty (cheating, plagiarism, forgery, changing graded assignments) are prohibited. With the first occurrence of academic dishonesty, in any form, a student will receive a failing grade for that single assignment/assessment. Proof of a subsequent event of academic dishonesty will result in a failing grade in the class along with a referral to the Dean of Science and the Dean of Students. Cheating includes but is not limited to: copying text of a source without proper citation, and copying assignments (home works, prelab, and lab reports) or exam from other students.

**Key to Success**

CHM 1025C is a course that requires you to understand, master the material, and be able to apply it. To be successful, you need to read upcoming sections from your textbook prior to attending lectures, take notes, practice chapter problems, and ask clarifying questions. Chemistry is fun, remember to have fun learning it.

**Important Dates to Remember**

01/16/18 Last day to drop and receive refund, 11:59 p.m. deadline

03/30/18 Last day to withdraw and receive a “W” (refer to withdraw policy)

04/25/18 Final Exam, 5:00 – 7:30 pm

**Major Topics/ Concepts/ Skills/ Issues**

* Laboratory skills activities
* Scientific method and measurements
* Matter and energy
* Modern atomic theory and models of the atom
* The periodic table
* Nomenclature
* The mole concept
* Chemical reactions and stoichiometry
* Gas laws
* Chemical bonding

**Disclaimer**

This syllabus may be modified at the discretion of the professor at any time during the course. Students are responsible for announcement made during lectures and/or online via blackboard.