**VALENCIA COLLEGE**

**INTRODUCTORY CHEMISTRY**

**CHM1025C section 24105**

**Spring 2019**

**Dr. Alex Kajstura**

**E-mail: akajstura@mail.valenciacollege.edu**

**Office Hours: Monday and Wednesday 1:45 – 2:15 pm and by appointment**

This class is presented in the lecture/lab format. Students will use MasteringChemistry® by Pearson to complete assignments and tests. An access code is required for using this interactive system. Canvas will be used to publish course Syllabus, Announcements, Chapter PowerPoint presentations, Khan Academy videos, and your Grades in the course.

**COURSE INFORMATION**

**Contact days and hours/week** (lecture/lab)

Lecture: Monday and Wednesday 14:30 – 15:45 (2:30 pm – 3:45 pm)

Lab: Monday 10:00 am – 12:45 pm

**Class meeting location(s)**

**East Campus Bldg. 1: Lecture room 347; Lab room 229**

**Term the course is offered**

Spring 2019: Jan. 7 – April 28 (Final Exam April 22)

**4 College Credit Hours earned upon passing**

**Prerequisite(s) and/or Co-requisite(s)**

Minimum grade of C in high school Honors Algebra II or MAT 1033C or higher MAC prefix course.

**Course Description**

INTRODUCTION TO GENERAL CHEMISTRY Prepares students without high school chemistry or with inadequate background for CHM 1045C. Modern chemical theories used to develop understanding of fundamentals of inorganic chemistry and its applications. Emphasis on quantitative course. May not be taken for credit subsequent to earning C or better in CHM 1045C.

**Course Learning Outcomes**

1. Scientific method and measurement
2. Matter and energy
3. Modern atomic theory and models of the atom
4. The Periodic Table
5. Nomenclature
6. The Mole Concept
7. Chemical reactions and stoichiometry
8. Gas Laws
9. Chemical Bonding
10. Develop laboratory skills
11. Scientific method and measurement
12. Chemical reactions and stoichiometry

**Required Instructional Materials:**

1. Intro Chemistry w/Mastering Chemistry + E-Book. Author C. Corbin, Edition 8, Publisher: Custom, ISBN 1323688110 (shrink-wrapped)
2. Introductory Chemistry Lab Manual. Author C. Corbin, Edition: 2, Publisher: Custom, ISBN 1323508775 (spiral-bound paperback)
3. Scientific Calculator

**Refund of Fees**

The official refund date for Spring 2019 is Jan. 15, 2019.

**STUDENT SUCCESS INFORMATION**

**Grades**

90-100% = A

80-89.99% = B

70-79.99% = C

60-69.99% = D

0-59.99% = F

Lecture assessments = 75% of final grade

Lab reports = 25% of final grade

**Assignment/Assessment due dates with point values for each grade component:**

Three tests (lowest score will be dropped) 2 x 100pts = 200pts (25% of Final Grade)

Final Exam 200pts (25% of Final Grade)

Chapter Homeworks (HW) MasteringChemistry 10 x 20pts = 200pts (25% of Final Grade)

10 Lab Reports: 10 x 20pts = 200pts (25% of Final Grade)

**Total 800pts**

**Each lab report is graded for three parts: Pre-Lab Assignment (5pts), Work in lab/Data Table (10 pts), Post-Lab Assignment (5 pts). The lab report with the lowest grade will be dropped.**

**Course Schedule**

|  |  |  |
| --- | --- | --- |
|  | **Lecture** | **Lab** |
| Week 1 | Syllabus/Lab Rules & Safety | Lab Safety/Check-in |
| Week 2 | Ch. 1 Intro. to Chemistry | Introduction to General Chemistry \*HANDOUT\* Exp. 1 |
| Week 3 | Ch. 2 The Metric System (No class Monday) | No Lab |
| Week 4 | Ch. 3 Matter and Energy | Exp. 2 Instrumental Measurements |
| Week 5 | Ch. 4. Models of the Atom | Exp. 3 Density of Liquids and Solids |
| Week 6 | Ch. 4  **Test #1(Ch. 1, 2, 3) Feb. 13** | Exp. 4 Freezing and Melting Point |
| Week 7 | Ch. 5 The Periodic Table | Exp. 5 Physical Properties and Chemical Properties |
| Week 8 | Ch. 6 Language of Chemistry | Exp. 21 Electrical Conductivity of Aqueous Solutions |
| Week 9 | Ch. 7 Chemical Reactions  **Test #2 (Ch. 4, 5, 6) March 6** | Exp. 10 Analysis of a Penny |
| Week 10 | Spring Break (no classes) |  |
| Week 11 | Ch. 8 The Mole Concept | Exp. 12 Empirical Formulas of Compounds |
| Week 12 | Ch. 9 Chemical Equations Calculations | Exp. 13 Analysis of Alum |
| Week 13 | Ch. 10 Gases | Exp. 15 Precipitating Calcium Phosphate |
| Week 14 | Ch. 10  **Test #3 (Ch. 7, 8, 9) April 10** | Exp. 18 Molecular Models and Chemical Bonds |
| Week 15 | Ch. 12 Chemical Bonding |  |
| Week 16 | **Final Exam April 22** |  |

Please note that the class does not meet January 21 (MLK Birthday) and during the Spring Break.

Note: Any student who didn’t attend the Lab Safety/Check-in lab (first week), will not be allowed to start the lab work until arrangements are made to be adequately trained in lab safety. Pre-Laboratory Assignments must be completed prior to the start of the Experiments. A student who didn’t complete a Pre-Lab will receive zero points for that part.

**Final Exam April 22, 13:00-15:30 (1:00-3:30pm).**

This Final Exam is a multiple choice test, presented in the same format as Tests #1, 2 and 3 but carries more weight.

**Make-up Policies and Procedures**

One Test with the lowest score will be dropped. This applies to tests 1, 2 and 3. This also means that if you had to miss a Test (and earn 0 points), that will be your lowest test lab dropped. No make-up opportunities for more than one Test missed will be given. There are no other make-up opportunities.

One Lab Report with the lowest score will be dropped. This also means that if you had to miss a lab (and earn 0 points), that will be your lowest score lab dropped. No make-up opportunities for more than one lab missed will be given.

**Extra Credit Policy**

Note:

*“There will be NO CURVE for any test).* ***No exceptions or other accommodations will be given to earn extra points.”***

**Attendance and Tardy Policy and Expectations** The College requires that professors take attendance in your classes. This is a *requirement* and not an *option* because when students withdraw, the college needs to know the last date of attendance for financial aid audits.

I will be taking attendance in the beginning of each lecture and lab period. If you are late, it is your responsibility to make sure you sign up on the attendance sheet for that period.

I do not withdraw students for non-attendance.

**Withdrawal Deadline and Policy**

Withdrawal policy per Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals).

Here is an example:

*“A student who withdraws from class before the* ***withdrawal deadline of March 22, 2019*** *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. Any student who withdraws from this class during a third or subsequent attempt in this course will be assigned a grade of “F.”*

*“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.”*

**Note:** students on financial aid should consult an advisor before withdrawing from a course; there may be financial implications to the student which he or she must know about to make an informed decision before withdrawing from a course. Students with some scholarships who withdraw or are withdrawn from a class must pay the college for the cost of the class. Other scholarship sponsors may also require repayment.

In order to academically maintain financial aid, students must meet all of the following requirements:

* Complete 67% of all classes attempted, and
* Maintain a Valencia GPA of 2.0 or higher, and
* Maintain an overall GPA of 2.0 or higher, and
* Complete degree within the 150% timeframe

Detailed information about maintaining satisfactory academic progress (SAP) can be found at: http://valenciacollege.edu/finaid/satisfactory\_progress.cfm

**Course Attempts/Course Withdrawal**

Agencies and organizations which provide financial assistance/scholarships (federal and state government, businesses, etc.) may have requirements relative to withdrawal, course repeats and grade forgiveness which are more stringent than those described below. It is your responsibility to verify the effects of enrollment and/or withdrawal upon your financial assistance (financial aid, scholarships, grants, etc.).

According to State Rule 6A-14.0301, you may attempt the same course only three times at Valencia including the original grade, repeat grades and withdrawals at any point in the term. Students in Bachelor’s degree programs are limited to two attempts. The same course usually means the subject prefix and course number are the same when posted on a Valencia transcript. Courses that have been deemed equivalent will all count as attempts even if the current course number is not the same as your previous attempt(s). Being enrolled in a course for credit beyond the Drop/Refund Deadline counts as an attempt. The Drop/Refund Deadline for each term is listed in the Academic Calendar in the online official catalog.

**Notice to Students Seeking to Withdraw from a Course(s)**

Before you withdraw from a course, you should be aware that course withdrawals:

• Will increase the cost of your education

• May affect your financial aid status

• May affect your transfer grade point average

• May result in your having to pay the full cost of instruction fee to retake the course

• May affect your anticipated graduation date

• May result in your being denied access to limited access programs

• May affect your eligibility for the Honors Program

• May affect your immigration status if you are attending Valencia on a nonimmigrant visa

• Will result in your required repayment of course fees paid by a Bright Futures scholarship.

To withdraw from a course(s) you must access registration on Atlas. The Withdrawal Deadlines for each term are published in the Academic Calendar in the online official catalog. All requests for withdrawals must be submitted by 11:59 p.m. on the Withdrawal Deadline date (March 22, 2019).

**Before you withdraw:**

• Talk with your professor to discuss your progress in the course

• See a Student Services staff member to discuss how a withdrawal will affect your career and education plans and/or the status of your financial aid

**Conditions That Apply to a First or Second Attempt in a Course**

On or Before the Withdrawal Deadline:

During a first or second attempt in the same course at Valencia, if you withdraw, or are withdrawn by the professor, you will receive a W (Withdrawn). You will not receive credit for the course, and the W will not be calculated in your grade point average; however, the enrollment will count in your total attempts in the specific course.

Following withdrawal, you may, with the professor’s approval, continue to attend the course for the remainder of the term.

After the Withdrawal Deadline: A student is not permitted to withdraw after the withdrawal deadline. The professor for this course will not withdraw after the deadline. For a complete policy and procedure overview on Valencia Policy 4-07 please got to:

http://valenciacollege.edu/generalcounsel/policy/default.cfm?policyID=75&volumeID\_1=4&navst=0

**Incomplete Grades:**

The college has the Policy (6Hx28:4-07) which addresses Incomplete Grade (I).Incomplete grade is based on extraordinary circumstances at the end of the semester and must be discussed by the professor with the Dean. If approved, the Incomplete Grade contract is to be completed by the professor and signed by the student. Work must be completed by the end of the next regular term or otherwise the student will automatically receive an F for the course.

**Valencia College Core Competencies**

*“The faculty of Valencia College has identified four core competencies that define the learning outcomes for a successful Valencia graduate. These competencies are at the heart of the Valencia experience and provide the context for learning and assessment at Valencia College. You will be given opportunities to develop and practice these competencies in this class. The four competencies are:*

*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.”*

**ADDITIONAL CLASSROOM INFORMATION**

**Security Statement**

*“We want to reassure you that our security officers are here around the clock to ensure the safety and security of the campus community. It is important to remain alert and aware of your surroundings, especially during the early morning or evening hours. Remember that you can always call security for an escort if you feel uncomfortable walking alone on campus. White security phones can also be found in many of our buildings; simply pick up the phone and security will answer. Finally, report any suspicious persons to East Campus Security at 407-582-2000, or by using the yellow emergency call boxes located on light poles in the parking lots and along walkways.”*

**Faculty/Student Communication**

My expectation is that students will use their college e-mail account to maintain written communication with the professor. Unless necessary, please do not use your personal e-mail addresses. If you need to use a non-Valencia e-mail account, please identify yourself clearly, and state the course and section number. The response will be sent to your college e-mail.

My commitment and typical response time to students’ e-mails is under 24 hours during business days, and under 48 hours during weekends.

If you are having technical difficulties with the course, please keep documentation such as copies of emails, saved screen shots, pictures of screen with a date, etc.).

For communications from the professor and the college, please check your emails at least every other day.

**Important statement:**

*“Valencia College is committed to providing each student a quality educational experience. Faculty members have set high standards of instruction for themselves and for you. If you have a problem in a class, your first step is to talk to your instructor. If you are still dissatisfied, you may talk with the academic dean of the division for your class. We will work together to resolve any issues that arise.”*

**Academic Honesty Statement**

Any act of academic dishonesty will be handled in accordance with Valencia policy as set forth in the Student Handbook and Catalog.

Each student is required to follow Valencia policy regarding academic honesty. All forms of academic dishonesty (cheating, plagiarism, forgery, misuse) are prohibited as stated in the Student Code of Conduct and will be disciplined or penalized accordingly. All work submitted by students is expected to be the result of each student’s individual thoughts, research, and self-expression unless the assignment specifically states “group project.”

With the first occurrence of academic dishonesty, in any form, a student will receive a failing grade (zero points) 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.

**Classroom Rules of Student Behavior**

The primary responsibility for managing the classroom environment rests with the professor. The Student Code of Conduct is published in the current Valencia Student Handbook: **http://valenciacollege.edu/pdf/student-handbook.pdf**

Students who engage in any prohibited or unlawful acts that result in disruption of a class may be directed by the faculty member to leave the class for the remainder of the class period. Longer suspensions from class or dismissal on disciplinary grounds must be preceded by a disciplinary conference or hearing, as set forth in the Implementing Procedures of this Code.

Disciplinary action could include withdrawing a student from class or initiating a disciplinary warning, probation, suspension, expulsion, or other appropriate and authorized actions.

**Food or Drink in the Lecture or Lab Rooms**

No food or drinks of any kind are allowed in the laboratory at any time.

Drinks in closed containers are allowed during lecture time. No food is allowed in classrooms.

**Electronic Equipment Use**

Phone should be turned to vibrate or turned off during class time. If you must take a critically important call, please step outside of the classroom to answer it. Use of a laptop is permitted if used for the lecture purposes such as following the Powerpoint, etc.

**Alternative Arrangements for Pregnant Students**

The laboratory environment often times will involve the use of and/or exposure to chemicals or other substances. If you are pregnant and concerned about your exposure to these chemicals, please see your instructor, lab manager, or Dean 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, regarding requests for alternative arrangements relating to pregnancy.

**Student Feedback on Instruction (SFI)**

Each term students taking courses are asked to complete the electronic Student Feedback on Instruction survey to let us know more about their experiences. It is used at Valencia by faculty members to improve the teaching and learning experience. Faculty cannot access your student feedback until after final grades are posted. Through this link you can find answers to other commonly asked questions about the SFI.

**http://valenciacollege.edu/academic-affairs/institutional-effectiveness-planning/institutional-assessment/saicc/SFIFrequentlyAskedQuestions.cfm**

**BayCare Behavioral Health’s Student Assistance Program**

Include this statement, which is useful to students in need of private counseling:

“*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 hour 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.”*

Also students may need to contact the Victim Service Center’s Sexual Assault Hotline at 407-497-6701 or at http://www.victimservicecenter.com/ .

**Students with Disabilities Information:**

Students must request accommodations through the proper channels in a timely manner. I care about your success in the class and respect your challenges. If you need accommodations such as an extra testing time, notetaker, etc., please make these arrangements early in the semester. The procedure is stated below:

*"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."*

*East Campus Building 5, Rm. 216 Phone: 407-582-2229 Fax: 407-582-8908*

*Email: osdeast@valenciacollege.edu*

**Support Services**

Tutoring services are available in bldg. 4.

Additionally, online (on demand) tutoring is available to students. It is accessible through Smarthinking (smarthinking.com).

In order to help students succeed in their educational endeavors, Valencia College offers a variety of SkillShops:

short seminars covering a variety of topics which deal with student success, goals and purpose. To check out Valencia’s Skillshop offerings, go to: http://valenciacollege.edu/studentservices/skillshops.cfm

**Lab Requirements/Equipment/Safety Rules**

All lab requirements will be discussed during first week of classes, and students must meet those requirements at all times. Any misconduct deemed unsafe during labs will result in a student being removed for the lab period.

**Disclaimer: Changes to the Syllabus during the semester.**

*“The course outline and syllabus are subject to change as needed; changes will be announced in class and posted as an Announcement in Canvas in a timely manner, when necessary. Your continued participation in this course after the drop-refund deadline period constitutes an agreement with and an acceptance of the conditions presented in this syllabus.”*

**Weather Emergencies**

In the case of weather emergencies, you can find out about school closings by signing up to update your information for Valencia Alerts.

**College Policies, Procedures and other References**

●A full description of all College policies can be found in the College Catalog at

http://www.valenciacollege.edu/catalog/

●Information about maintaining satisfactory academic progress can be found at

http://valenciacollege.edu/finaid/satisfactory\_progress.cfm

●The Student Handbook can be found at

http://valenciacollege.edu/pdf/student-handbook.pdf

●The Policy Manual can be found at

http://valenciacollege.edu/generalcounsel

●The college calendar can be found at

http://valenciacollege.edu/calendar

●Information about the Office for Students with Disabilities can be found at http://valenciacollege.edu/osd/CurrentStudents.cfm

●Final exam schedule can be found at

http://valenciacollege.edu/calendar/FinalExam.cfm

●Information about Valencia’s Skillshop which offers a variety of topics on student success and goals can be found at http://valenciacollege.edu/studentservices/skillshops.cfm

**Study Tips**

*LEARNING IS AN ACTION VERB!! Most students need to do more than just sit through lectures and reread their notes.* ***Spend 1-2 hour blocks of time EVERY DAY*** *actively writing or discussing concepts to make them a part of your memory. Use the words you learn often, they will sink in better.*

*.*

*Here are some study and classroom management tips that have assisted former students:*

*- Attend class daily and don’t be tardy. The introduction to each lecture explains the purpose of the entire lecture. Students who follow this rule won’t miss important information.*

*- REWRITE YOUR NOTES soon after the lecture; if the instructor permits, tape record lectures and replay to refresh your memory when you rewrite your notes.*

*- Create flash cards with questions you make up from the lecture and lab with answers on the back.*

*- Use mnemonic devises and other games to remember concepts; go to Google images, YouTube and Khan Academy for additional pictures and videos to clarify concepts.*

*- Make lists of confusing topics from your studying and ask questions.*

*- Take advantage of the professor’s office hours.*

*- JOIN A STUDY GROUP and predict what questions the professor could ask on the test.*

*- Get the telephone number of one or more buddies in case you are absent from a class.*

**Learning Support Center**

Valencia offers free services outside of the classroom to assist your learning. The **Tutoring Center** (downstairs building 4) provides math tutoring in a walk-in basis and tutoring for languages, science, business, and many other subjects by appointment. Study rooms are open for reservations and math materials are also available for check out with your Valencia ID card. You can also get tutoring online 24 hours a day, 7 days a week through **Smarthinking**. Click the Tutoring (Online) link in the Course tab in Atlas to access the full schedule of Smarthinking subjects such as various math, writing, business, nursing and allied health, science and computer technology.

The **Computer Access Lab** (Building 4) is an open lab with computers, project spaces, printing, scanning, and equipment check out. One-on-one training is also available for Microsoft Office products, Photoshop, OneDrive, and CANVAS. The **Testing Center** (4-124) is where you go to make-up exams arranged with your professor, take exams for online classes, or receive pre-arranged special accommodations. Make sure you have your Valencia ID card or a state driver’s license with you when you go to take your test.