

Chemistry 100 - General Chemistry
Imperial Valley College
LECTURE/LAB

Dr. James Fisher

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Required Materials:

- Textbook: Introduction to Chemistry, Nivaldo Tro, 4rd, Pearson Publishing, 2010.
- Lab Manuals: Chemistry 100 Laboratory Packet; IVC chemistry website
- Safety Glasses or Goggles: must be acid and heat resistant. These must comply with:
 - Meet ANSI* Z87.1-2003 standards.
 - Polycarbonate lens
 - Wraparound protection offers a wide field of vision
- Non programmable Calculator: a highly recommended calculator is the Texas Instruments TI36X Solar Scientific Calculator (NOT the "Pro").
- Scranton for your final exam. Preferably the 882-E, for 100 answers.

Additional Required Supplies: Closed toed shoes.

CLASSROOM ETIQUETTE AND ACADEMIC HONESTY

Removal of students, by the Instructor, for "good cause" either temporary or permanent is found in California Education Code Section 76030-76307. Definition of Good Cause including but not limited to: Continued disrupted behavior, continued willful disobedience...open and persistent defiance of the authority...

No electronic equipment will be allowed to be used in the classroom, **including cell phones and computers**, without permission of instructor. This is a college classroom; disruptive or disrespectful behavior will not be tolerated. It is NOT OK to be late, sleep, talk, whisper during class or do homework for another class. Class will end on time, so do not pack up early and disrupt the class. Leaving during lecture or lab is considered an unexcused absence. If you have to leave anytime during class, other than established break times, you must inform your instructor.

A college education is supposed to be challenging. This class requires hard work. **Students must do their own work**. Looking on someone else's quiz or exam, handing in a paper or lab you did not write (or with significant portions written by someone else), discussing your answers to quizzes, and passing notes during exams, are all examples of cheating. Anyone whom I determine to have cheated will receive a zero score on the exam or assignment. Repeated acts of cheating may lead to an "F" for the final course grade and/or college administrative disciplinary action. For a complete discussion of disciplinary procedures for academic dishonesty or other student misconduct, please refer to the current IVC General School Catalog.

Cheating and Plagiarism. IVC expects honesty and integrity from all students. A student found to have cheated on any assignment or plagiarized will receive a zero for the assignment and sent to Disciplinary Officer Sergio Lopez. A second occurrence of cheating or plagiarism may result in dismissal from class and expulsion from IVC as outlined in the General Catalog.

Course Objective: Chemistry 100 is designed for students majoring in various science fields requiring a complete and thorough knowledge of general chemistry principles and applications and who have not previously taken a chemistry course.

Course Prerequisites: *Math 90*: Intermediate Algebra with a grade of C or better or equivalent.

Course Overview: Chemistry is the study of matter - its composition and how it changes. All sciences are based on chemistry to some extent. That is why Chemistry is known as the Central Science.

SLO Student Learning Outcomes: Assessment: Laboratory Exam A, see below for more information

Chemistry Writing Assignments: You may have a writing assignment for each chapter. 250 word max limit, 10 points. You will be graded on both content and style. I won't struggle to find your point. All your essays must be organized, logical and specific; above all they must be clear. Clarity is a primary virtue in this class. Your assignments are turned in at Turnitin.com. For instructions on (1) Class Id, and (2) Class Password go to our website listed under faculty: <http://faculty.imperial.edu/jim.fisher/item/508-chemistry-assignments>, and look for "Writing Assignment Instructions" for links to (A) setting up a new account, and (B) returning students. You will have three days from the assigned date to submit your work, starting and ending at 8AM. Zero points awarded for plagiarized work.

Lecture Quizzes: A short quiz on lecture material will periodically be given at the beginning of class. Quizzes are worth 5-15 points each with **no makeup** quizzes allowed. Quizzes will not be given on lecture exam days.

Lecture Exams: There will be 6 exams, the lowest exam is dropped, so only 5 exams count. **No make-up** exams. Exams will be graded and then returned as soon as possible. During the summer or winter sessions, only 5 exams are given, and no exams are dropped.

Final Exam: The Final Exam is comprehensive. Final exam questions are in multiple-choice format. You must purchase a 882-E, 50 questions per side, Scranton for the Final Exam. There are **no make-ups** because the date and time of the Final is the last day of class. **You MUST score at least 50% on the final to receive full credit for the final.** Full credit means you will receive 4 pts for each question for a possible 200 pt final exam score. If you score less than 50%, you will receive only 1 point for each question on the final. You are allowed to use a "cheat-sheet" on the final; one letter sized page, use of the front and back, in Your hand-writing, no photocopying, or printer-texted.

Quizzes	5 @ 10	50 pts
Writing Assignments	17@10	170 pts
Exams	5 @ 100	500 pts
Labs	14 @ 10	140 pts
Lab Attendance	14@10	140 pts
Lab Cleanup	14@10	140 pts
Lab Exam		100 pts
Final Exam	200 pts; You MUST SCORE 50% or better to receive credit for the final!	
TOTAL (about)	≈1100 pts	

Letter grades will be assigned based upon the % of points earned: Grading scale, A: 90-100%; B: 80-89%, C: 70-79%, D: 60-69, F: <59.

Lab Data and Calculations are due the next lab period. One point is deducted for every day a lab is handed in after the due date.

Lecture Attendance is recorded. Students are expected to attend every class session. Any student who misses the first class will be dropped. Students may be dropped at instructor discretion if they miss more than a week of class hours continuously. Please make arrangements with the instructor or a fellow student to keep up with all assignments in case you cannot attend a class session for any reason.

Lab Attendance is recorded just as lecture attendance. **If you miss** the safety or introduction of the lab, you will not be able to attend that lab, and there are not lab makeups. **You will receive no points for a lab you miss. 3 unexcused absences and you will be dropped. You may be asked to have your lab signed by the Instructor, at the beginning and end of the lab to receive any credit. Since Closed Toed Shoes are mandatory for Lab, not having closed toed shoes will not count as an absence, and you will NOT receive credit for the lab. Locker checkout counts as 2 labs or 20 points.**

Lab Cleanup is 10 pts for each lab. Clean your area up. The entire class will lose points if the sinks, scales, hoods, floor are not clean, chemical caps not screwed back on, and chairs not put in place.

Study Hints: Chemistry is a very demanding course. Depending on your background, you will need to spend 1-4 hours outside of lab to get your work done. Missing a lecture usually means your grade falls by $\frac{1}{2}$ grade. **Falling behind will be disastrous.**

Student Learning Outcome: Investigate, summarize, and presentation.

No Gifts, cards, or food. All will be refused. Spend your time and effort studying.

Don't try to cram! It doesn't work. Keep up!!!!

Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP&S) as soon as possible. DSP&S Room 2117 Health Services Building (760) 355-6312.

Student learning outcomes: Student learning outcomes or SLOs are statements that specify what students will know, be able to do or be able to demonstrate when they have completed or participated in a program/activity/course/project. Outcomes are usually expressed as knowledge, skills, attitudes or values.

SLOs specify an action by the student that must be observable, measurable and able to be demonstrated! The purpose of having SLO's is to help departments understand how to better facilitate student learning. It gives departments feedback about skills students are learning. It also helps students to articulate what they are learning and have learned inside and outside of the classroom. Ultimately, this will provide students with a map of where various learning opportunities are available throughout IVC.

The most basic SLO is an Institutional Student Learning Outcomes, and they are categorized as **ISLO1** = communication skills; **ISLO2** = critical thinking skills; **ISLO3** = personal responsibility; **ISLO4** = information literacy; **ISLO5** = global awareness. There are also Division and Department SLO's.

For this class, we are focusing on the following: Students calculate English and metric unit conversions and measurements using dimensional analysis (ISLO4); Students derive and write formulas and names for chemical compounds (ISLO2); Students write symbols for elements and know common ionic charges (ISLO2); Students write and balance common chemical equations and identify reaction types.(ISLO4)

Chemistry 100
Imperial Valley College
Rubric for Laboratory Exam A

Levels of Implementation Score%	Characteristics of Effective Laboratory Examination Assessment			
	INVESTIGATE & RESEARCH	ANALYZE & EXAMINE	CONSTRUCT & SYNTHESIZE	REFLECT & INTERPRET
Emerging >50%	Meandering and incoherent knowledge shown	Detects few if any connections or patterns.	Applies little information. Combines few facts or ideas. Needs more development.	Conceives few ideas. Draws few inferences. The meaning of the topic is vague.
Competent 75-95%	Understanding of the problem. Adequate knowledge displayed.	Sifts and organizes information. Detects patterns. Connects information to explain the topic.	Assembles and combines knowledge to form a coherent whole.	Uses perspectives and insights to explain relationships.
Exemplary Full Credit	Knowledge base displays scope, thoroughness, and quality.	Prospects for patterns and connections. Uses plans or models to explain the nature of the whole problem.	Combines facts and ideas to create knowledge that is comprehensive and complete.	Point of view reveals meaning of topic with insight into its significance.