

Chemistry C101
Elementary Chemistry 101;
Indiana University Northwest;

Text: *Introductory Chemistry, Corwin* Seventh Edition

Will also need a Pearson access code. It comes free with purchase of new book or additional charge for purchasing individually without the textbook

Course Outline

Date		Chapter and Content
Jan 12	Week 1	1-3: Introduction to the course, the scientific method states of matter, physical and chemical changes. (Much several self-directed topics required by students such as scientific notation and rounding so read the chapter and do practice problems)
Jan 14		1-3: Measurements in Chemistry, temp conversions, sig figs, dimensional analysis, conversion factors, and density
Jan 19	Week 2	3-Matter and energy: Density con't, overview of periodic table, start of atomic theory
Jan 21		Quiz 1 4 Models of the atom: Atomic theory con't, Dalton, Thompson, Rutherford, parts of the atom, amu's, isotope formula
Jan 26	Week 3	4- Properties of light EM spectrum, Bohr model and electron orbitals
Jan 28		Quiz 2 4- The quantum model of the atom: orbital box notation electron Configuration, quantum numbers
Feb 2	Week 4	4-5 Orbital box continued, the periodic table
Feb 4	Review for exam 1 in discussion	5, 12- Periodic table con't, trends of the period table, formation of ions, bonding, ionic, covalent, polar covalent
Feb 9	Week 5	Exam 1 chapters 1-4 (part of 5)
Feb 11		12- Lewis Structures, resonance
Feb 16	Week 6 (No <i>discussion</i> section after the Thursday class)	12- Determining polarity in molecules, VSEPR geometry, bond angles
Feb 18		12 –VSEPR geometry, bond angles con't
Feb 23		8 –The mole concept
Feb 25		Quiz 3 8 – The mole concept con't

Mar 1	Week 8	7 – Balancing chemical reactions, types of reactions, SR, DR etc
Mar 3		Quiz 4 9 – Mass mole in reactions, limiting reactants
Mar 8	Week 9 automatic withdrawal deadline Mar 13th	6- Naming 1 lecture only, (Much self-directed study here)
Mar 10		Quiz 5 10- Gas laws Boyles, Charles, the Ideal (1 lecture only)
Mar 15	Week 10	Spring Break No class
Mar 17		
Mar 22	Week 11 Review for exam 2 in discussion	11- Redox reactions
Mar 24		11- Redox reactions continued
Mar 29	Week 12	Exam 2 chapters 6, 7, 8, 9, 12
Mar 31		9- IM forces
Apr 5	Week 13	9- IM forces con't
Apr 7		Quiz 6 13- Solution chemistry (1 lecture only)
Apr 12	Week 14	16- Keq reactions
Apr 14		Quiz 7 16- Keq/Lechaterliers principles
Apr 19	Week 15	12 Keq reactions/Lechateliers principles
Apr 21		Quiz 8 14 Acid base chemistry
Apr 26	Week 16 Last day of class	14- Acid base chemistry
Apr 28		14- Acid base chemistry
MAY 3	Week 17	Final Exam, Thursday May 5th 10:00-12:00 am comprehensive, all chapters we covered

Office Hours and Contact Information

IUN Chemistry Secretary Candace. Phone number 980-7123. Leave any messages

Instructors e-mail: tenelson@iun.edu

Office- Adjunct Faculty Office, Marram room 233

My office hours: Tuesday 9:00AM-10:00AM or Thursday after class.

Best way to reach me

The best way to reach me is through e-mail. My e-mail address is below. I answer my e-mails on a frequent basis and will do my best to get back with you promptly. e-mail me at tenelson@iun.edu

Discussion Schedule

During the discussion period, you will have an opportunity to ask more in depth questions on assigned homework or lecture. *(You can ask me questions anytime in the lecture as well but if you are still struggling with a concept, the discussion is an additional opportunity to get help.)*

Discussion Schedule

Quizzes will be given during the discussion section. There will be **8** quizzes. **There will be no make-up for missed quizzes.** You are able to drop the **2** lowest quizzes so any missed quizzes will be treated as a drop.

During the discussion period, you will have an opportunity to ask more in depth questions on assigned homework or lecture. *(You can ask me questions anytime in the lecture but due to the fast pace of the lecture, if you are struggling with a concept, the discussion is the best time to get help.)*

Class Attendance:

1. It is important for you to attend the lectures. Many concepts and ideas **that are not** readily found in the book are discussed during class. Good attendance will contribute positively towards your class grade.
2. THIS COURSE HAS BEEN APPROVED TO ENFORCE THE IU NORTHWEST ATTENDANCE AND COURSE COMMITMENT POLICY.

A the discretion of the academic department, students who do not attend the first scheduled week of classes and who have not made prior arrangements with their instructor may be subject to administrative withdrawal.

At the discretion of the faculty, students who miss more than 50% of their class meetings and/or who do not actively participate in their enrolled classes during the first four weeks of the fall or spring semesters may be subject to administrative withdrawal from their courses. Students may be administratively withdrawn regardless of their class level or standing. THE FULL TEXT OF THIS POLICY IS AVAILABLE AT: <http://www.iun.edu/registrar/policies/couse-commitment-attendance-policies.htm>

Homeworks: VERY IMPORTANT! TAKE APPROPRIATE NOTES HERE!

1. Homework will be assigned and posted to the "Mastering Chemistry" Pearson web site. Homeworks are normally due within a week after they were assigned. There will be a 20% grade reduction for homework that is one week late. Any homework after that you can do for practice and understanding but will not be counted for points.

Syllabus Schedule

This syllabus schedule is tentative and may change as the semester progresses. You will be made aware of any schedule changes during the lecture period. This may include changes in exams and quizzes.

Withdraw, Incomplete Policy:

Withdrawing from the course must be done in a timely fashion in accordance with the university withdraw policy. I cannot grant a withdrawal if the withdraw deadline has passed. A grade of **incomplete** can only be given under the following conditions (all of which must meet IUN policy)

1) You have completed more than 75% of the course. 2) The final is not taken, 3) The student's standing in the course is passing, 4) I am notified by the student on or before the day of the Final that that exam will not be taken. An acceptable reason must accompany this notification.

Course Objectives:

Students completing the C101/C121 sequence will:

1. Demonstrate the ability to identify and explain how scientific theories are formulated, tested, and validated.
2. Demonstrate the ability to integrate and apply scientific methods which include defining parameters of problem, seeking relevant information, subjecting proposed solutions to rigorous testing, and drawing conclusions based on the process.

Calculations for your final grade in the class

Grading

Exam 1	100 pts
Exam 2	100 pts
Final Exam	180 pts
Quizzes(best 6 of 8)	120 pts
Homework	60 (~10% of your grade)
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Total	560 pts

Your grade will be based on these percentages from the points above. There is no curve for exams or quizzes however a final curve is usually given at the end the semester and is normally as follows: It may be somewhat higher than below but will never be below these percentages.

100-88%=A range +-

87-75% =B range +-

74-62% = C range +-

61-50% = D range +-

Below 50% =F

My Class Rules

1. You must purchase a Texas Instruments TI-30 calculator or TI higher calculator but only a TI brand calculator. Texas Instruments is the ONLY brand of calculator allowed for my class. If you choose to use another brand of calculator you do so at your own discretion. I will not be responsible for your not knowing how to use any other brand calculator you bring to my class nor can I help you with any other brand you choose to bring to class.
2. Do not ask to borrow my calculator. The answer is no.
3. **NO CELL PHONE CALCULATORS ALLOWED.**
4. Bring your calculator to class **every day**
5. Once class begins put your cell phones away.
6. Shut off cell phones or put to vibrate
7. No texting during my class. If something is so important that you need to contact someone during class, then you need to step out of the classroom to text or phone.
8. No talking with each other during my class except for our in-class work time.

ANY QUESTIONS?

The following language must be in all syllabi as per the vice chancellor.

RIGHT TO ACCOMMODATION FOR INDIVIDUALS WITH DISABILITIES

Indiana University is committed to creating a learning environment and academic community that promotes educational opportunities for all individuals, including those with disabilities. Course directors are asked to make reasonable accommodations, upon request by the student or the university, for such disabilities. It is the responsibility of students with documented physical or learning disabilities seeking accommodation to notify their course directors and the relevant campus office that deals with such cases in a timely manner concerning the need for such accommodation. Indiana University will make reasonable accommodations for access to programs, services, and facilities as outlined by applicable state and federal laws. *Campus support office:* Davetta Haywood, Disabilities Coordinator, Hawthorn 237, 219-980-6942 Student Support Services Student Support Services www.iun.edu/~supportn

THE IUN SEXUAL MISCONDUCT POLICY

“What you should know about sexual misconduct: IU does not tolerate acts of sexual misconduct, including sexual harassment and all forms of sexual violence. If you have experienced sexual misconduct, or know someone who has, the University can help. It is important to know that federal regulations and University policy require faculty to promptly report complaints of potential sexual misconduct known to them to their campus Deputy Title IX Coordinator(s) to ensure that appropriate measures are taken and resources are made available. The University will work with you to protect your privacy by sharing information with only those that need to know to ensure the University can respond and assist. If you are seeking help and would like to speak to someone confidentially, you can make an appointment with a Mental Health Counselor on campus(contact information available at <http://stopsexualviolence.iu.edu/employee/confidential.html>). Find more information about sexual violence, including campus and community resources at <http://stopsexualviolence.iu.edu/>.”