



Dallas High School

Home of the Dragons

General Chemistry



2022-2023

Instructors: David Flugum **Telephone:** (503) 623-8336 X 2910

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Office Hours: ALIE 2:40-3:30 Monday, Wednesday, Thursday, Friday

2nd/6th Period 9:45-10:55

Course Description: This course deals with the study of all the substances in our world, what they are made of, how they act, and how they interact with each other. In this course, you will practice essential skills in laboratory work, measurement using the metric system, and problem solving, while developing accuracy in measurement and graphing. Topics covered include lab safety, measurement and accuracy, mixtures and compounds, structure of the periodic table and atomic theory, symbols, bonding, formulas and equations, chemical calculations (stoichiometry), gas laws, solubility, concentration of solutions, acid-base relationships and titrations. Phew! But don't worry we will have fun doing it all.

College Credit – This course is available for credit through Western Oregon University via the Willamette Promise program. Students can attain 4 credits for CH 104 for a one-time fee of \$30 (financial assistance is available). This \$30 fee covers all Willamette Promise credits for the year. This credit is fully transferrable to four year colleges. A passing grade in this course demonstrates a student's competency in basic chemistry foundations, lab procedures, and readiness for higher level chemistry courses required for a science degree.

- *In order to obtain credit students must:*

- Score a 70% or higher on 7 unit tests.
 - Retakes for College Credit are only available on the first test and one other test of the student's choice
- Demonstrate safe and competent lab skills
- Successfully complete the Group Project.

- *Grade Calculation and Grading Scale for CH 104*

- Final Grade Calculation: $(\text{Avg. Exam } \%) \times .80 + 20\% = \text{Final Class } \%$
 - Example $(85\% \text{ avg.}) \times .80 + 20\% = 88\%$
- Grading Scale for CH104
 - $\geq 92.5\% = A$ $92.4\% - 89.5\% = A-$ $89.4\% - 86.5\% = B+$
 - $86.4\% - 82.5\% = B$ $82.4\% - 79.5\% = B-$ $79.4\% - 76.5\% = C+$
 - $76.4\% - 72.5\% = C$ $72.4\% - 69.5\% = C-$ $69.4\% \text{ or lower} = \text{no College Credit}$

- *Participation, fees and registration, credit*

- Participation in the Willamette Promise program is voluntary.
- Participation in Willamette Promise Program does not affect the student's high school credit and grade. (See "Grading Policy" section below)
- \$30 course fee is not due until a student earns and accepts the credit. Fees will be collected in late May/Early June when Willamette Promise Final Grades and credit is determined.
- Course registration is free and online. Registration will be in the Spring..
- Students earning CH104 credit will not be awarded credit until fee is paid or waived.

Course Outline –

- Chemistry is a full year course. These units will stretch across both semesters.
- First semester will end somewhere around Unit #5.

	Unit Topic	Summative Assessment
Unit 1	Chemical Foundations	Unit 1 Test and WP Test #1
Unit 2	Modern Atomic Theory	WP Test #2
Unit 3	Bonding and Compound Naming	Unit 3 Quiz And WP Test #3
Unit 4	Chemical Reactions and Equations	WP Test #4
Unit 5	Chemistry Quantitation and the Mole Concept	Unit 5 Quiz and WP Test #5
Unit 6	Stoichiometry	Unit 6 Quiz and WP Test #6
Unit 7	Solution Chemistry	Unit 7 Quiz and WP Test #7 (final)
Unit 8	Acids and Bases	Unit 8 Test
Unit 9	Gas Chemistry	Unit 10 Test
Unit 10	Nuclear Chemistry	Unit 11 Test/Final
Final Project	Environmental Chemistry	Willamette Promise CH104 Group Project

Standards to Be Assessed: (all three big ideas are addressed in each unit)

1. *Demonstrate an understanding of the major principles and theories of general chemistry and its relationship to environmental issues.*
2. *Demonstrate an understanding of the nature of science and scientific experiments.*
3. *Use basic laboratory glassware and equipment to make scientific measurements, test hypotheses, collect scientific data.*
4. *Graph and interpret scientific data and perform calculations involving unit conversions.*
5. *Analyze the validity of scientific data collected in laboratory assignments or provided in lecture to support an argument or position.*
6. *Understand ethical concerns regarding scientific research and the use of science to create a sustainable future.*

Grading Policies -

- High School General Chemistry Grade
 - Records of assignments and tests will be kept according to the class grading policy (see “Grading and Assessment” Section below). This record will be used to award a letter grade and credit for Chemistry at Dallas High School.
 - Willamette Promise College Credit CH 104 Grade
 - Records of Test scores will be kept according to Willamette Promise and Western Oregon University policies (see above). This will be used to award a letter grade and credit for CH 104 through Western Oregon University.
 - Tests for Willamette Promise will be used as assessments for Chemistry – while you’re double graded, you’re not double tested!
- *Students can choose whether they want to accept the CH 104 credit through WOU. If they choose not to accept the credit, they do not need to pay the \$30 fee.*

Grading and Assessment:

Grades in this class will be determined by the percentage of points earned out of the class total. Tests, practice assignments, labs, and warm-ups will contribute to the grade in this class. It is the intent that tests make up about 50%-60% of the points in this class.

The percentage grading scale is:

- A – 90.0-100%
- B – 80.0%-89.9%
- C – 70.0%-79.9%
- D – 60.0%-69.9%
- F – 59.9% and below

Extra Credit: Extra credit is not offered; however, students may be given additional opportunities to show mastery. See “Grading and Assessment” and “Extra Help and Retakes” sections for more information.

Academic Integrity: We expect students to express academic integrity by doing their own work and properly documenting information gathered from other sources. Students who violate the principles of academic integrity will be subject to disciplinary consequences (see Insubordination section of the on-line student agenda).

Cell phones and Electronic Devices: It is the expectation that students will use their phone or other electronic devices at appropriate times and for class directed activities. Misusing electronic devices extensively during instructional time, work time, or lab activities is often the cause of negative learning outcomes, mistakes, and missed assignments. Misuse of electronics may result in:

- Warning request to put device away/use it appropriately
- 1 on 1 discussion about appropriate electronics use
- Change of seating assignment
- Email/phone call home
- Referral for disciplinary action

Extra Help and Retakes:

- If you want to retake a test please inform Mr. Flugum ahead of time. Completion of a review assignment is required.
- Students will be given a window of 2 weeks from the day the test is returned to arrange for a retake. Dates will be posted in the classroom.
- Retakes will not be given during a student’s class time. Retakes must be done before or after school, during ALIE or during a student’s open period(s).
- Retakes will be given for High School Credit, CH104 only allows for students to retake the first test and one other test of their choice.

Behavior Expectations:

- Good attendance is crucial to success in this class
 - o Students who are absent for extended periods are expected to keep up using the Canvas Classroom.
- All school policies and directives will be followed.
- Communication is important! Let the instructor know when you will miss class, be late or if you are having difficulty!
- Be prepared for class! Bring all the materials needed. Complete assignments and labs on time and to the best of your ability.
- Ask Questions and seek help when you’re struggling! Make use of the after school intervention time when needed.

Mr. Flugum's Class!!

Classroom Needs:

All students will need the following items:

- Scientific Calculator (log and scientific notation functions, does not need to be graphing)
- 70 page, single subject, spiral bound, college ruled notebook

Parents: Please keep the rest of the syllabus By signing this form, you acknowledge that you have read and fully understood the expectations, rules, and standards associated with General Chemistry. If you have questions, please call 503-623-8336 or email using the email address provided in this document.

Parent Name: _____

Parent Signature: _____

Student Name: _____

Student Signature: _____

Students, please read the statement below and place your initials in the blank if you plan on attempting the college credit option.

_____ I am planning on attempting to earn college credit for CH 104 through this course as described in the syllabus above.

Due Date _____