



CHEMISTRY Course Syllabus 2012-2013 **Kamehameha Hawai'i High School**

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Room: KEOUA 2018

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Hello, and welcome to Chemistry. This syllabus will give you some important information about your chemistry class. If you have questions that are not answered here, please feel free to ask Mrs. Correia at an appropriate time.

Goals

- Chemistry is designed to help students:
 - Develop the critical thinking skills necessary to safely conduct scientific inquiry
 - Understand the process and history of scientific inquiry
 - Identify the structure and properties of different forms of matter and how they interact with energy.
 - Communicate scientific results in both written and oral work
 - Prepare students for future science classes

Standards/Areas of Study

Content Standards

- **Standard 1: Properties and States of Matter**
 - **Core Standard-** Describe the nature of physical and chemical properties and changes of matter.
 - **Core Standard-** Compare and contrast states of matter at the molecular level.
- **Standard 2: Atomic Structure and the Periodic Table**
 - **Core Standard-** Describe how the properties and arrangements of the subatomic particles contribute to the structures of atoms.
 - **Core Standard-** Describe how the structure of the periodic table reflects the numbers of electrons and protons and the configuration of electrons in an atom.
- **Standard 3: Bonding and Molecular Structure**
 - **Core Standard-** Describe how the configuration of electrons within an atom determines its interactions with other atoms.
 - **Core Standard -**Describe the attractive forces among molecules and their effect on chemical and physical properties.
- **Standard 4: Reactions and Stoichiometry**
 - **Core Standard-**Use balanced chemical equations and the mole concept to determine the quantities of reactants and products.

- **Standard 5: Behavior of Gases**
 - **Core Standard** -Using the kinetic molecular theory, describe and explain the behavior of ideal gases.
 - **Core Standard**- Using the ideal gas equation of state $PV = nRT$, examine the relationship among the number of moles, volume, pressure and temperature for ideal gases.
- **Standard 6: Thermochemistry**
 - **Core Standard**-Recognize that chemical reactions result in either the release or absorption of energy.
 - **Core Standard**-Apply the law of conservation of energy.
- **Standard 7: Solutions**
 - **Core Standard**-Describe the composition and characteristics of solutions.
 - **Core Standard**- Identify the factors that qualitatively affect solubility, reaction rates and dynamic equilibrium.
- **Standard 8: Acids and Bases**
 - **Core Standard**- Use acid-base definitions to identify acids and bases when given their formulas and reactions.
 - **Core Standard**-For any aqueous solution, explain the meaning of the value indicated by the pH scale in terms of the hydrogen ion concentration.
- **Standard 9: Organic Chemistry and Biochemistry**
 - **Core Standard**-Describe the unique nature of carbon atoms' ability to bond to one another and other elements, which forms countless carbon-based substances and macromolecules.

In addition to these content standards, in keeping with the mission of Kamehameha Schools to cultivate, nurture, and perpetuate 'ike Hawai'i, the Chemistry curriculum will address the Working Exit Outcomes adopted by Kamehameha Schools.

Kamehameha Schools

Working Exit Outcomes Framework

Ke Ao Ho'oulu Growth	Ke Ao Lani, Ke Ao Honua Global	Ke Ao Pilina Relationships	Ke Ao 'Imi Na'auao Knowledge & Wisdom
<p>He Hawai'i au mau a mau – I am a Hawaiian now and forever.</p> <p>Embrace my identity as a Hawaiian.</p> <p>E lawe i ke a'ō a mālama, a e 'ōi mau ka na'auao - He who takes his teachings and applies them increases his knowledge.</p> <p>Grow by identifying strengths and needs and pursuing appropriate actions.</p>	<p>Kū i ke ao – Be of the world. To be like the world in which one lives.</p> <p>Live in interdependence with all that surrounds me physically, spiritually, emotionally, and intellectually.</p> <p>E ho'ōki i ka ho'ina wale o ho'ino 'ia ma'i ke kumu – One should never go home without some knowledge lest his teacher be criticized.</p> <p>Embrace the collective experience in Hawai'i and the Pacific as a foundation for relating to the diversity of the world.</p>	<p>Hilina'i i Ke Akua – Trust in God.</p> <p>Live a life reflective of Christian values.</p> <p>'Ike nō i ka lā o ka 'ike; mana nō i ka lā o ka mana - Know in the day of knowing; mana in the day of mana.</p> <p>Adapt successfully to various kūlana.</p>	<p>Nānā i ke kumu – Look to the source.</p> <p>Utilize various sources (i.e. kupuna, kumu, loea, mo'olelo, wahi pana, mo'omeheu) to foster inquiry and seek knowledge.</p> <p>Ua lehulehu a manomano ka 'ikena a ka Hawai'i – Great and numerous is the knowledge of the Hawaiians. We create, share and apply knowledge in purposeful and relevant ways.</p> <p>Engage in critical thinking to apply traditional knowledge to my contemporary context.</p> <p>Lawe i ka ma'alea a kū'ono'ono – Take wisdom and make it deep.</p> <p>Transform my knowledge through the blending of imagination, intuition and intellect.</p> <p>He aupuni palapala ko'u; 'o ke kanaka pono 'o ia ko'u kanaka – Mine is a kingdom of education, the righteous man is my man.</p> <p>Seek and apply knowledge ethically.</p>

Textbook Information

Chemistry
Prentice Hall
ISBN #0-13-251211-4

Technology

- This year all students at KS Hawai'i High School, who are in good standing, will be issued a KS laptop for their use in their classes. These laptops are not student property, and student use is subject to KS policy (See Student/Parent Handbook).
- We will use a variety of Web based tools in chemistry to help facilitate student learning. These tools include, but are not limited to: Blackboard, Evernote, Edmodo, Wallwisher, etc...
- Many of these tools require a student to create an online account. If a student is required to create an account on their own, a permission form will be sent out to parents prior to using any of these tools.

Expected Behavior

Students will exhibit positive behaviors at all times, demonstrate respect for selves, peers, teachers, school staff, and school property. Students are expected to follow all KS policies, classroom procedures, and contribute to classroom activities. Students must remain in classroom during class, unless permission is granted to leave. Students are expected to remain in seats and are asked refrain from conversations (either verbally or using technology) of a personal nature unless given permission to do otherwise.

Attendance:

It would be ideal if all students strived for perfect attendance, especially in a short, intense summer course. Of course unforeseen events happen (illness, injury, etc.).

KS policies regarding absences are outline below (see KS Student/Parent handbook).

Procedures for Excusal of Absences

➤ Parental Phone Call:

Parents/guardians should call 982-0620 by 8:30am on the day the student is absent. If a call is not received, the absence is considered unexcused. If a student is absent for more than 1 day, parents/guardians must call each day a child is absent, unless they notify the office ahead of time.

➤ Returning to School After Absence:

All students need to readmit (check-in) through the High School Administration Office, with a parent/guardian note indicating the reason for the absence. A doctor/medical note is required if the student is absent 3 or more days due to illness or injury. All doctor/medical notes should include information about the illness, treatment, directions for follow-up, and the directions for activities. Students who are absent 3 consecutive days or more will need to readmit through the Health Room prior to checking in at the High School Administration Office.

➤ Make-Up Work

It is the student's responsibility to check with the teachers about any missed assignments. All class work should be made up as promptly as possible. Parents/guardians may contact the High School Administration Office at 982-0600 to request homework, with the understanding that there is a 24 hour turn around time for teachers to have homework ready for pickup.

Tardiness:

Tardy students may miss class discussions, presentations, or daily mini quizzes by being tardy to class. This is not to mention the disruption to the ongoing lesson. The KS policy regarding tardiness is as follows (see KS Student/Parent handbook):

➤ Procedures for Tardies

A student arriving at 7:45am, or after the beginning time of any class period, is tardy. Students are to report to the High School Administration Office for a tardy pass to class. Generally, tardiness is unexcused. Students arriving after 7:45am need to bring a note or ask a parent/guardian to call the school. Repeated tardiness will result in detention being assigned or a parent/guardian conference.

➤ Unexcused Tardies:

Students who are tardy to classes will be assigned detention after the third (3rd) unexcused tardy, and will be issued detention for every subsequent unexcused tardy thereafter. Unexcused tardies include:

- Getting up late
- Missing the bus
- Heavy traffic
- Arriving late to class without a pass from a teacher or administrator

Laboratory Policy:

Policies regarding lab safety are strictly enforced. Non adherence to the policy will result in issuance of detention for each infraction. Prior to your first lab activity, you will receive a copy of the policy for your notes. In addition, there will be a mandatory lab safety lesson and safety quiz, which you are required to pass with a 80% or better, BEFORE you will be allowed to participate in a lab activity.

Getting Help:

If you are falling behind...it is YOUR KULEANA to ask me for help. To schedule a tutoring session, come see me personally for a Study Help Slip.

I do not answer emails after 4:00 pm. If you send me emails after this time, I will not respond until the next day.

Assignment Policy:

All assignments handed in for a grade will be assessed using a rubric. To receive credit for the assignment, it must meet the rubric criteria. Graded assignments NOT meeting grading criteria will be returned to student for revision before a grade is assigned.

Late Assignment policy:

- In accordance with KS policy students must hand in any late assignments within 4 days of the initial due date (KS policy does not exclude weekends and holidays).
- Late assignments are assessed a 15% penalty.
- If the missing assignment affects the grade by a deduction of a full letter, the teacher will contact the parent/guardian. Athletic notifications will also be made at this time.
- If the assignment is not handed in by the 4th day, the assignment will no longer be accepted and will be recorded as a zero in my gradebook.
- If you are absent on a test day, you must make contact with me that day and make arrangements to makeup test. Upon your return, pick up a required study help slip from me.

Grading Policy:

80%: Summative Assessments (Chapter Tests, Labs, Papers, Projects)

20%: Formative Assessments (Pretests, Notebooks, Classwork, Homework)

Student work is graded on a 100 point system. Letter grades are assigned as follows:

A	B	C	D	F
100 to 90	89 to 80	79 to 70	69 to 60	59 to 50

After reading the syllabus, **Please sign and return to Mrs. Correia**
Chemistry Syllabus Contract

I have read and understand the syllabus for Mrs. Correia's chemistry class. I agree to abide by the syllabus and understand the consequences if I do not. Please acknowledge your understanding of the grading policy and class protocols by detaching this page from the previous ones and returning it signed with the appropriate information -- at our next scheduled class meeting

- **I have read and understood the course syllabus for Chemistry 2012-2013.**
- **I will strive to complete all assignments and work on time.**
- **I will come with the proper attitude and tools to make the brief time that we have valuable.**

Student Name (printed): _____

Student Signature: _____ Date: _____

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Parent/Guardian Name (printed):

Parent email: _____ (required)

This is the way I will contact you should I need to notify you of your students progress.

Parent/Guardian Signature: _____ Date _____