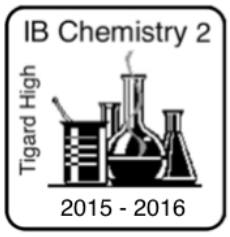

IB Chem 2
Course Syllabus

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Course Overview

Welcome to IB Chemistry 2, Tigard High's third year of chemistry study. This course has been designed to follow the requirements of the International Baccalaureate (IB) Chemistry Program and will involve a more detailed investigation into many of the ideas and concepts that were introduced in first year of IB chemistry. Students who successfully complete this course should feel well-prepared to take either the standard level (SL) or higher level (HL) IB chemistry exam.

Please be aware that this course is considered to be one of the more challenging courses we offer at Tigard High and should not be taken casually. Students will be expected to work as hard as necessary to understand the topics we will be covering, regardless of the amount of time outside of class this may take. Many students will find that hours, if not days of concerted effort are needed to practice and master how particular types of problems are solved. However, we will start slow and I will do everything in my power to be as clear and helpful as possible as we move through our units. You just need to make sure you are up for the challenge, willing to work, buckled in, and ready for the ride!

Units we will be covering:

1. Stoichiometric Relationships (Review)
2. Atomic Theory & Periodicity (HL)
3. Bonding (HL)
4. Energetics (HL)
5. Kinetics (HL)
6. Acids and Bases (HL)
7. Oxidation and Reduction (HL)
8. Organic Chemistry (HL)
9. IB Option C: Energy (SL)

Class Notes

Students who are successful in this class are usually those who maintain good classroom notes. As nearly all tests and quizzes are written directly from material covered in class, it will be well worth your time to keep your notebook filled with all lecture, reading, and lab notes, as well as all problems we go over on the board.

Homework

There will almost always be something you should be working on or reviewing, such as readings from your textbook and associated practice problems, revising classroom notes, completing a lab worksheet, or reviewing an online tutorial. Mastering such assignments will be essential if you hope to demonstrate your understanding on tests and quizzes.

Assignments

- ☞ Unless told otherwise, all assignments started in class are due at the beginning of our next class period.
- ☞ All assignments will be placed on our class website lesson calendar. Students are expected to keep track of these assignments and know when they are due.
- ☞ Late work will not be accepted!

All work must be turned in on the date due, at the start of class.

Quality of Work

All written work must meet the following basic requirements:

- Start with a proper heading, including date and assignment specifics (e.g., Page 45, problems 1-8).
- Be neat, legible, and well-spaced (providing ample room for corrections and comments).
- Written in BLACK or BLUE ink, or a dark pencil (<u>absolutely</u> <u>no</u> <u>other</u> <u>colors</u>).
- If done within your notebook (i.e., not on a worksheet), you must include the question within your answer.

✍ Special Note On "Showing All Work":

One of the most important skills students will need to learn and demonstrate in this class will be the ability to show all steps necessary to solve a particular problem. I will go to great lengths to show exactly what is expected, so simply follow my instructions and in-class examples and all will be fine.

However, no matter how much this is emphasized there are always students who want to argue that they should not have to show work if they understand "it" and are able to arrive at the correct answer. Unfortunately, this is not what science is all about. Correct answers are near meaningless without the ability to communicate the process by which they were arrived. This ability to communicate, often mathematically, is a primary skill of any scientist. So please be forewarned of this now, for I will not argue the point further: No work = no credit.

Lab Work

There will be an average of one or two labs every week. Most labs will simply be a matter of completing an accompanying worksheet, others requiring far more time and work both in and out of class.

Note: You are expected to wear proper shoes on lab days, ones that will protect your feet should you have an accident. Open-toed shoes, flip-flops, high heels, slippers, etc, are not acceptable. If you think this might be a problem, please plan to keep a backup pair of shoes in your locker. However, if needed you will be provided with a pair of disposable shoe covers so that you may proceed with that day's investigation.

Tests and Quizzes

<u>Quizzes</u>

There will be one or more short quizzes nearly every week covering recent material and essential skills, with most being open-note quizzes.

<u>Tests</u>

Tests will be given at the end of every unit and will often take the entire 90 minute period to complete. You will be allowed to use one 5x8* note card on all tests. At the end of the course, you will be given a comprehensive final exam covering all material from both quarters. [The final exam will be equivalent to two test scores, and you be allowed to use a full page of notes, both sides.]

*Note cards must be original and of your own creation!

Make-up Work (excused absences only)

<u>Missed Assignments</u>

As per THS policy, you will have the same number of days absent <u>plus</u> <u>two</u> to make-up any missed assignment. However, it will be <u>your</u> responsibility to find out what you have missed and what is required to get caught-up.

<u>Missed Labs (Open Lab Tuesdays)</u>

Every Tuesday after school there will be an "Open Lab" in our classroom for students to make-up any missed lab from the previous week. You do not need to make an appointment, just show up and be ready to work. If you are unable to attend on that Tuesday you will need to talk with me as to arrange another time. However, if you wait until after that Tuesday, it will then be too late to make up the lab.

<u>Missed Tests or Quizzes</u>

If you are absent on the day of a test or quiz, you will have 5 school days to make it up upon your return without penalty. Beyond 5 days, you will lose 10% of your final score for every additional day late.

For prearranged absences, the test or quiz should be taken <u>before</u> the day of your absence, pop quizzes upon your return.

Consequences for Cheating

Students who copy work from another or allow their work to be copied will receive:

i. a zero on the assignment
ii. a call home
iii. an administrative referral

Grading

Grades are weighted: 70% Tests and Quizzes
30% All other coursework

Grade scale:

A = 90%	C = 70% - 79%	F = 59%
B = 80% - 89%	D = 60% - 69%	

Note: The grade cutoffs given are not approximations. For example, a 79.4% is indeed a "C," although it is excruciatingly close to a "B." Please realize this now. Whatever grade you hope for, plan on being well within that grade range!

Attendance Policies

Absences ☹

All absences must be reported by a parent or guardian calling our school attendance line at 503-431-5430 within 24 hours of an absent. According to THS policy, if a student returns without this being done he or she will receive detention.

To get caught-up after an absence, please review the When Absent page found on our class website.

Tardies ☹

Students who are not ready to start work at the start of class will be marked tardy. This includes not being in your seat, wearing improper shoes on a lab day, or anything else that requires class time to correct.

Tardy Policy:
◇ 1st & 2nd tardy: Verbal warning and angry scowl
◇ 3rd & 4th tardy: 30 minutes detention or classroom cleanup ☺
◇ 5th tardy: Administrative Referral ☠

Please Beware! As per THS policy, parents cannot excuse tardies. If getting to school on time is problematic in your home, please start planning now on how to overcome your situation. Regardless of who is at fault, if you are late to class it will be a recorded tardy. (FYI: Only a teacher or doctor can excuse a tardy.)

No Backpacks or Large Personal Items Allowed in Class (our room is too small!)

Please understand that our classroom is a chemistry laboratory and has very little room to move around. With a large number of students, this can be quite a safety issue. Consequently, only those materials needed for class should be brought (notebook, assignments, etc.). Backpacks and larger personal items must be left in your school locker.

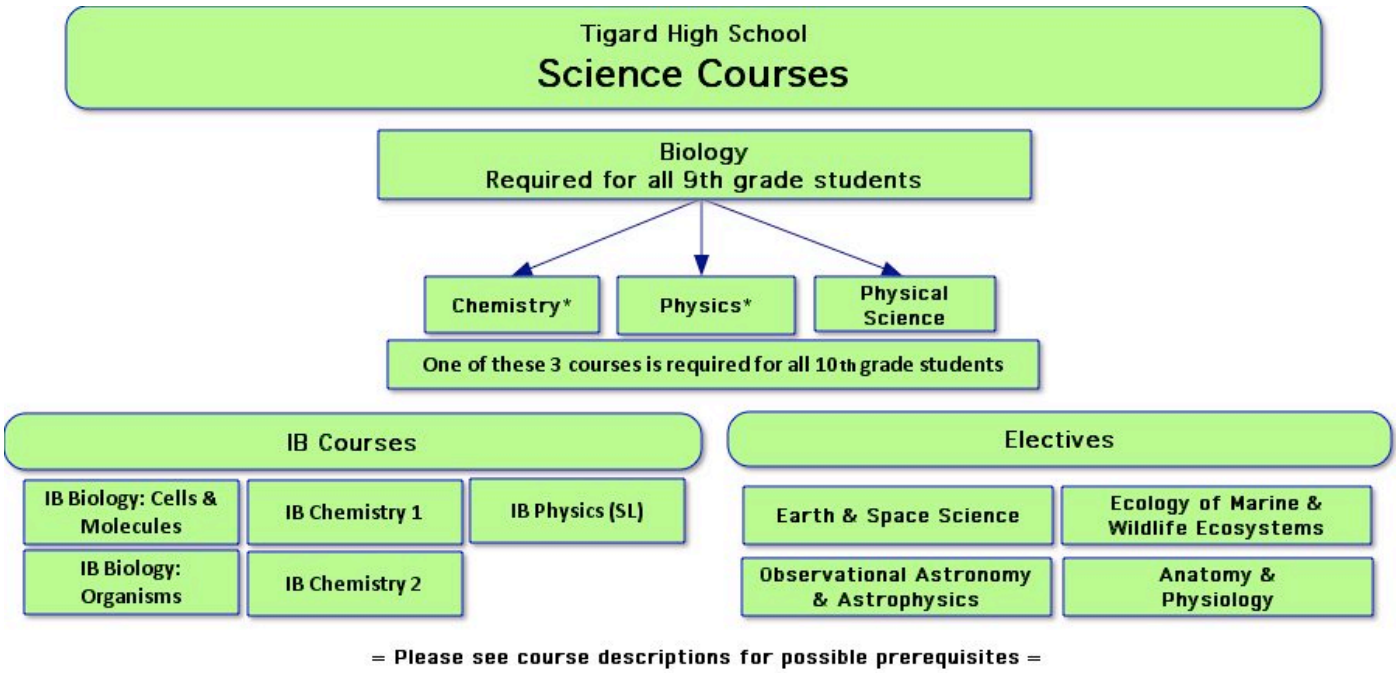
Note: If you bring your backpack to class, it will be recorded as a tardy.

Zero Tolerance for Electronic Devices

Cell phones, music players, headphones, etc., must be turned off and put away during class. If used in class, your devices will be confiscated.

Classroom Policies and Expectations

1.) Everyone is to be treated with courtesy and respect.
2.) No food or drinks are allowed, except bottled water.
3.) All work done must be for this class only.
4.) Work areas must always be left clean and neat, with stools placed back under the counters.
5.) All lab safety rules must be followed in complete accordance with the lab safety policies.
6.) Bathroom passes will require students to leave their cell phones within the classroom.

Please know that I will almost always be available for help after school, or by appointment if needed (just see me to set up a time). Also, please feel free to call me or send an e-mail whenever you need help, have a question, or just need to talk something over. If I'm not available, just leave a message on my voicemail and I'll get back to you as soon as possible.

AND... please remember to visit our class website! Daily lessons, assignments, and general course information can be found there, as well as many helpful Chemistry links. It will be updated continually throughout the semester and is an excellent resource for students and parents.