

Honors ChemistryII/Advanced Placement Chemistry
2025-2026 School Year
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Description: The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. There is a great deal of information to cover.

Academic Integrity: This is a college-level course and the teaching and assessment methods will follow that of college as much as possible. Much emphasis will be placed on **STUDENT** responsibility, and like college, you will not “get” an A by doing your work at the last minute and turning in assignments of marginal quality. Any work that is suspected of being copied from another student or from another outside source will be given a failing grade and the student will be required to re-write the assignment if he or she wants partial credit.

Big Idea 1: Quantities in chemistry are expressed at both the macroscopic and atomic scale.

Big Idea 2: Properties of substances observable at the macroscopic scale emerge from the structures of atoms and molecules and the interactions between them.

Big Idea 3: At its heart, chemistry is about the rearrangement of matter. Understanding the details of these transformations requires reasoning at many levels as one must quantify what is occurring both macroscopically and at the atomic level during the process.

Big Idea 4: Energy has two important roles in characterizing and controlling chemical systems.

Course Outline: The following topics will be covered in the course. Note that there may be additions or deletions, and the order in which the topics are discussed may change. In addition to completing the indicated laboratories, we will be completing student driven inquiry labs to support the new AP Chemistry curriculum.

Unit 1: Atomic Structure and Properties

Unit 2: Molecular and Ionic Compound Structure and Properties

Unit 3: Intermolecular Forces and Properties

Unit 4: Chemical Reactions

Unit 5: Kinetics

Unit 6: Thermodynamics

Unit 7: Equilibrium

Unit 8: Acids and Bases

Unit 9: Applications of Thermodynamics

Class Requirements

Materials: Students are **required** to bring the following items to class:

- Two 3-Ring binders with paper (at least 2")
- Calculator – any kind can be used in class and on AP Exam
- Pencils/Pens/Highlighters

Textbook/Websites: We will be using the following textbook in class. Each student will be assigned a book to take home.

Chemistry, The Central Science, 15th Edition by Brown, LeMay, Bursten, Murphy, and Woodward

Some of the assignments for this course will require internet access at home. **If Internet access is an issue for a student, it is that student's responsibility to let the teacher know before the assignment due date. There are always computers available before and after school and during lunch if needed.**

Students in AP Chemistry, as in College Chemistry, are to be responsible for their own learning. This means reading ahead in the text, making up missed work without being told to do so, asking questions, and taking detailed notes in class. After-school review sessions will be as needed and at the request of students. It is up to the students to make sure these sessions are attended. You should expect to spend, on average, one hour per night working on AP Chemistry assignments.

Grades are calculated as follows:

Summative:	Tests, Quizzes (half of a test), and Labs	70%
Formative:	Classwork, Exit Tickets, and Homework	30%

The semester grade will be calculated as follows:

40%	First Nine Weeks
40%	Second Nine Weeks
20%	Teacher Made Exam

There is no State Exam for Honors 2/AP Chemistry. However, there will be a district Common Mastery Assessment (CMA) administered the days preceding State Exams in the fall. This CMA will count as two test grades in their second nine weeks. The BCS High School Common Mastery Exemption Procedure states:

Eligibility Criteria

Any absences, whether excused or unexcused, count towards the limit for the CMA exemption. Exceptions include absences resulting from school-sponsored field trips, school-approved activities, religious holidays, or school system-approved medical hardship waivers.

3.1 For semester courses: A high school student may be exempt from the CMA if the student either

- (1) Has an "A" average and no more than four absences
- (2) Has a "B" average and no more than three absences
- (3) Has a "C" average and no more than two absences

Exemption Decision

The determination for exemption will be shared with teachers on the closest Monday to the start of the CMA window. Students who are exempt from the CMA may elect to take the exam. If taken, the exam grade will count only if it improves the student's overall grade.

The AP Exam is scheduled for Tuesday, May 5, 2026 at 8 am.

General Expectations

- Come to class on time and prepared
- Complete all classwork and homework when instructed
- Use class time effectively
- READ ALL TEXT THAT IS ASSIGNED
- Stay in your seat until the bell rings
- Clean up after yourself
- NO CELL PHONES

Cell Phone Policy:

Per the SBHS Student Handbook...

South Brunswick High School has written an outline of expectations and procedures related to the use of cell phones/electronic devices during the instructional day. These expectations and procedures are consistent with Board Policy 4311.

Students may not use cell phones/electronic devices during instructional time (this includes earbuds/headphones, speakers, etc.). As a result, student use of cell phones/electronic devices/earbuds is prohibited during each class period. These devices must be off and OUT of SIGHT during instruction.

SBHS expectation for student use of cell phones/electronic devices during the instructional day: The use of a student cell phone/personal electronic device is prohibited during instructional time (from the beginning to end of each class period). Students may be permitted to use their cell phones before/after school and in the cafeteria during their assigned lunch period.

Staff and administration are not responsible for lost, stolen, or damaged cell phones/personal electronic devices.

Staff and administration will not disrupt instruction to conduct searches for lost or stolen cell phones/personal electronic devices.

Consequences for misuse of cell phones/electronic devices during the instructional day:

- First Offense - A Verbal Warning. Failure to follow instructions will be seen as insubordination and will result in further disciplinary action
- Second Offense - The teacher/staff will confiscate the student's cell phone and return it at the end of class.. Failure to follow instructions will be seen as insubordination and will result in further disciplinary action.
- Third Offense - The teacher/staff will confiscate the phone, turn it into the office. The student may pick up at the end of the day. Failure to follow instructions will be seen as insubordination and will result in more disciplinary action.

Failure to comply with teacher confiscation will lead to confiscation by administration, a parent/guardian will then need to pick up the phone or item.

Electronic Devices Are NOT Allowed During ANY Test Session, NO EXCEPTIONS

Cell phones are to remain in the room when students use the restroom.

Tardy Policy:

You are expected to be in the classroom when the tardy bell rings. If you are not, you will be marked as tardy in Infinite Campus.

Per the SBHS Student Handbook...

South Brunswick High School values instructional time and is committed to protecting that time to the greatest extent possible. Our teachers use the entire class period to provide instruction and support to all students. As a result, whenever a student is late to class, he or she misses out on necessary instruction and can create disruptions to the learning environment when entering the room. Our goal for this policy is to encourage all of our students to value, protect, and take advantage of the instructional time available and to take responsibility for their education.

As it relates to this policy, tardiness refers to:

- Any student arriving late to class without a pass from a staff member
- Any student that arrives late to school without a note from a parent or doctor

Possible actions related to tardiness:

- After school detention
- ISS
- Revocation of Driving Privileges

County Dress Code Policy

The county dress code policy will be followed and can be found here.

<https://boardpolicyonline.com/bl/?b=brunswick#&&hs=141605>

Students are not permitted to wear hats or hoods in class, and they should be covered fully from armpits to mid-thighs. This is NOT an all encompassing statement, and you should take a moment to review the entirety of the dress code policy.

- **1st Offense** = Student will be asked to correct the inappropriate attire while at school or parent will be called to come to school and replace the unacceptable clothing or student will be placed in ISS for the remainder of the day.
- **Any Further Offenses** = Will result in disciplinary action as deemed appropriate by the principal

Homework

- Homework will not be graded. The answers will be available for you to check your work at the end and beginning of each class. It is your responsibility to complete your homework as it is assigned, to check your answers, and to ask questions if you have them.

Exit Tickets

- At least once a week, you will have a short exit ticket that should take no more than 20 minutes. The questions will be similar to problems that you have already completed and the answers have been made available.

TSNF Quizzes

- In your TSNF book, there are TSNF statements divided by units in the CED. These are rote memorization facts.
- Every IL Day (the study day before the test), you will begin with a Thou Shalt Not Forget (TSNF) quiz. The quiz will have four to five questions. You will have ten minutes to complete it.
- The TSNF quizzes will be cumulative, meaning once you have quizzed on Unit 1, those statements will always be fair game for the remaining TSNF quizzes through Unit 9.

Labs:

- I take lab safety very seriously. Students will be given a lab safety contract that they must adhere to. Students will receive 50 points for completing the actual lab. Proper lab attire must be worn and includes closed toe shoes with a back (no crocs/sandals), long pants (no leggings or holes in pants), no midriffs, and hair pulled back. If a student fails to have the proper attire for labs, they will not be allowed to complete the lab and will lose 50 points. The remaining 50 points will come from a lab quiz after the lab has been completed and reviewed in class. If a student has an excused absence, the teacher will arrange an alternate assignment.

Tests

- I do my best to create valid and thought provoking assessments. There are very few available resources for creating test questions most like the ones from the AP exam due to the security that should be maintained with those assessments.
- Tests include multiple choice and free response questions

AP Science Late Work

- All assignments are due on the date given when assigned. Late work will receive a 10 point penalty per day. If it is not turned in by test day, it will be marked as a zero in PowerSchool. It will not be accepted after the unit test. This includes labs.

AP Science Absence on Test Days

- If you are absent on the day before a test, you are still expected to complete the test with the rest of the class the next day because you will not miss any new instruction.
- If you are absent on a test day the following will be policy: If absence is EXCUSED, you can schedule a make-up day within 5 school days. If absence is UNEXCUSED, you will take an alternate free response only exam and that must be completed within 5 school days.

Absences

- I will do my best to record class lectures and post them at the end of each day. If you are absent and able, I highly recommend you watch the lecture and complete your notes so that you can stay on pace with the class.
- Answer keys to homework assignments will be available in the classroom.