

Forsyth County Schools Course Syllabus 2021/2022

COURSE TITLE: Advanced Placement Chemistry	
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Course Description (GaDOE/College Board): This course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Students should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. AP chemistry students should study topics related to the structure and states of matter (atomic theory, atomic structure, chemical bonding, nuclear chemistry, gases laws, kinetic molecular theory, liquids and solids and solutions), chemical reactions (reaction types, stoichiometry, equilibrium, kinetics, and thermodynamics), and descriptive chemistry (chemical reactivity, products of chemical reactions, relationships in the periodic table, and organic chemistry). To develop the requisite intellectual and laboratory skills, AP Chemistry students need adequate classroom and laboratory time. It is expected that a minimum of 290 minutes per week will be allotted for an AP Chemistry course. Of that time, a minimum of 90 minutes per week, preferably in one session, should be spent in the lab. The AP Chemistry course is designed to be taken after the completion of a first course in high school chemistry. In addition, the recommended mathematics prerequisite for an AP Chemistry class is the successful completion of a second-year algebra course. It is highly desirable that a student have a course in secondary school physics and a four-year college preparatory program in mathematics.

Standards: *Course Content Standards can be found on p. 24*
<https://apcentral.collegeboard.org/pdf/ap-chemistry-course-and-exam-description.pdf>

Required Assignments:

<p>First Semester</p> <ul style="list-style-type: none"> ● Unit 1 - Atomic Structure & Properties ● Unit 2 - Molecular & Ionic Compound Structure & Properties ● Unit 3 - Intermolecular Forces and Properties ● Unit 4 - Chemical Reactions ● Unit 5 - Kinetics 	<p>Second Semester</p> <ul style="list-style-type: none"> ● Unit 6 - Thermodynamics ● Unit 7 - Chemical Equilibrium & Solubility ● Unit 8 - Acids & Bases (2 tests) ● Unit 9 - Applications of Thermodynamics ● AP Practice Exam / Review
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<p>Summative</p> <ul style="list-style-type: none"> ● end of unit assessment ● lab ● midterm (fall) and final (spring) exams 	<p>Formative</p> <ul style="list-style-type: none"> ● homework / classwork ● quizzes ● lab / project (as appropriate)
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Required Materials: paper/pencil/pen, suggest 1 to t ½ inch 3 ring binder for handouts, composition notebook, scientific calculator

Availability for Extra Help: *mornings, 7:45-8:15 [subject to change with duty & meetings - students will be notified]*

Makeup Work: *Make up work is defined as work assigned during a student's absence, not work assigned prior to an absence. The student has five (5) school days upon returning to school to complete make-up work. The teacher has the discretion to grant a longer period to make up work if there are extenuating circumstances.*

Grading Calculations:

Course Average = 50% (1st Sem. Course Work) + 50% (2nd Sem. Course Work)
 1st and 2nd Semester Course Work = 75% Summative + 25% Formative

Grading Policy:

A = 90 – 100

B = 80 – 89

C = 70 – 79

Failing = Below 70

Formative Assessments include, but are not limited to, homework, class work, labs, investigations, practice tests, rough drafts, and sections of projects/research papers/presentations.

Summative Assessments include, but are not limited to, unit tests, final projects, final essays, formal lab reports, final research papers, and final presentations.

Learning Resources/Textbook(s): All learning resources, both print and digital, are meant to support and enhance the student learning experience in this class. Below are the names of the textbooks and websites that will be used in this course. Some of the web-based resources require parent permission per federal regulations. Federal laws that guide parent permission requirements are as follows:

- **Children’s Internet Protection Act (CIPA):** The school is required by CIPA to have technology measures and policies in place that protect students from harmful materials including those that are obscene and pornographic. Any harmful content contained within inappropriate sites will be blocked. <http://fcc.gov/cgb/consumerfacts/cipa.html>
- **Children’s Online Privacy Protection Act (COPPA):** COPPA applies to commercial companies and limits their ability to collect personal information from children under 13 years of age. No personal student information is collected for commercial purposes. <https://www.ftc.gov/tips-advice/business-center/guidance/complying-coppa-frequently-asked-questions-0>
- **Family Educational Rights and Privacy Act (FERPA):** FERPA protects the privacy of student education records and gives parents the right to review records. Under FERPA, schools may disclose directory information in certain circumstances. <http://www2.ed.gov/policy/gen/quid/fpco/ferpa>

Please review the resource list. Each website related to the curriculum resources is provided along with its privacy policies. Should you have any questions regarding these resources, immediately contact the course teacher via email or phone.

Name of Resource*	Hard copy/Website	Privacy Policy
Cengage	Digital platform for <i>Cengage AP Chemistry OWL</i> textbook, supplemental, and assessment material (accessed via ClassLink)	https://corporate.cengage.com/privacy/k12-notice/
Explore Learning	Digital supplemental material (accessed via ClassLink)	https://www.explorelearning.com/index.cfm?method=Controller.dspPrivacy
Newsela	Digital supplemental material (accessed via ClassLink)	https://newsela.com/about/privacy-policy/

*** The following resources are county approved. These resources may vary by school due to sequencing, pacing, curriculum design, and/or individual needs of students.**

Parent Initial for Approval **	Name of Resource	Website	Privacy Policy
	College Board - AP Classroom	https://myap.collegeboard.org/	https://privacy.collegeboard.org/?navId=gf-pp

		ogin	
	FlipGrid	https://info.flipgrid.com/	https://legal.flipgrid.com/privacy.html
	Khan Academy Chemistry	khanacademy	Privacy Policy
	Youtube (Tyler DeWitt, Crash Course, etc.)	YouTube	community guidelines
	USA Testprep	USA Testprep	Privacy Policy
	Nearpod	Nearpod	Privacy Policy
	CK12	CK12	CK-12 Terms of Use
	PhET	PhET Simulations	Privacy Policy
	Physics Aviary	https://www.thephysicsaviary.com/	NA
	GimKit	https://www.gimkit.com/	Privacy Policy
	Microsoft Teams	Microsoft Teams - Use your forsythk12.org email	Privacy Policy
	Remind	https://www.remind.com/	Privacy Policy
	ThingLink	https://www.thinglink.com/	Privacy Policy

**** The following resources are web-based resources that require parent permission. By signing the syllabus, the parent is approving these resources. Should you have any questions regarding any of these classroom resources, please contact your student's teacher via email.**

I, _____, have read this course syllabus and approve of its contents. I agree to allow my student to use each of the classroom resources listed in the learning resource section. I will support my student in following the classroom expectations outlined in this course syllabus. I agree that I am the person who is legally allowed to consent for my student, whose name is listed below.

Student's Name (Print)

Parent's Name (Print)

Parent Signature

Date