**Oxford High School**

**Advanced Placement Chemistry**

**Mr. Urig**

*“It is not what you have that matters, but what you do with what you have.”*

*-Dr. Johnny Miller*

1. **Course Description**

Advanced Placement (AP) Chemistry is designed to be equivalent to a freshmen level general chemistry course in college. The curriculum is developed by the College Board (ETS) and is very rigorous. Students should expect to complete 4-5 hours of individual study (including homework and laboratory reports) per week. The AP chemistry exam given in May offers students the opportunity to get credit for and/or skip freshman level general chemistry in college (depending on the institution). In addition, the AP test can aid in college admittance at select universities. Students are welcomed and encouraged to attempt the AP Chemistry test in the spring.

In this class, concepts studied in Chemistry I are covered in greater detail and additional, more challenging concepts are explored. This will be a challenging, but hopefully rewarding class. Each chapter will be accompanied by a problem set that is designed to afford you more practice and study of the topics covered. Problem sets will be turned in on test days and graded as homework. Labs will be given to supplement chapter study, and lab reports will be turned in for a grade. Neat, quality work is expected on all homework, lab reports, and tests. Sloppy or incomplete work will not be accepted. Successful completion of this class will not only increase the student’s scientific abilities, but also improve their overall academic capabilities which better prepares them for further education.

1. **Project Reel (A collaboration between Oxford High School and The Ohio State University)**

After completion of the AP exam, students will complete a 4-6 week laboratory program – Project REEL. Project REEL (Real Experiments to Enhance Learning) is a project developed by OSU to encourage interest in the sciences via authentic research opportunities. The program is in use at several state institutions in Ohio. Phase two of the project involves adapting it for high school use. Oxford High School is the pilot school for this program.

The program consists of 6 background laboratories. These labs are a combination of wet labs and computer stimulations. Their purpose is to provide the necessary theoretical background so that students may propose an original hypothesis to synthesize a new compound. Samples will be sent to OSU for analysis, and the data will be interpreted in class. The program will culminate in a formal laboratory report that will serve as the final exam in this class. Moreover, a group of students determined by class grade, will have the opportunity to travel to OSU and work in the labs as well as attend lectures. This is a tremendous opportunity for high school students and a wonderful addition to our AP program.

1. **Materials**
2. 3-ring binder or folders, paper
3. Scientific calculator- no sharing of calculators!!
4. Pencils & pens- bring something to write with, ipad
5. Textbook – Chemistry the Central Science (Brown, LeMay, and Bursten)
6. **Required work and grades – Tentative Course Outline (see textbook for chapter contents)**

**First Semester**

Chapters 1-10, 20

Midterm (AP Test )

**Second Semester**

Chapters 11-21

Final Exam – Project REEL

The total grade received in this course is determined as follows:

70% Tests & Quizzes, Select Lab Reports

20% Classwork and Lab work

10% Homework

**AP Exam Information**

1. Exam date: Monday May 4, 2015
2. Chapter Tests and Lab reports will include AP equations.
3. Several complete practice tests will be given in April as both classwork and test grades.
4. **Deadlines and Absences**
5. All homework and lab reports are due on specified dates. Late work is not accepted. HW, tests, or labs missed because of an absence on the due date will only be accepted on the first day you return to class. Multiple day absences follow school policy in regards to make up work. After a test is given on a unit, no more work can be turned in for that unit. Sloppy work will not be accepted.
6. Make-up work can be completed and/or turned in by arrangement with the teacher. If you miss school, it is responsibility to obtain the missing work from the assignment board in the front of the room.
7. All students are responsible for lab write-ups. For a missed lab, it is your responsibility to get the data from a lab partner and write your own report. This will be treated as a missed homework assignment and be due one day after your return. If you are absent on the day a lab is due, you are to turn it in the first day you return to school.
8. **Helpful Hints**
9. Come to class and be active in your learning!!!
10. Keep expectations high and reach them.
11. Ask questions, seek extra help, and do not fall behind.
12. Make appointments to see me after/before school for extra help. I am here for you.
13. **Class Rules**
14. Poor language will not be accepted.
15. If you wish to speak, raise your hand and wait to be recognized.
16. Absolutely no eating or drinking in the room at anytime.
17. If you are not in the room when class starts, you are late.
18. You are not permitted to leave the room without a pass.
19. Treat everyone around you with respect.
20. All school rules apply.
21. I reserve the right to make adjustments to the rules as necessary.

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