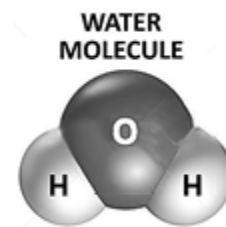




**632: Advanced Chemistry**  
**North Hunterdon High School**  
**2016-2017 Syllabus**



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<b>INSTRUCTOR:</b>	Mrs. Bonnie Klingaman	<b>OFFICE:</b>	201A (above the mall)
<b>E-MAIL:</b>	bklingaman@nhvweb.net	<b>PHONE:</b>	(908) 713-4199 ext.4362
<b>WEBSITE:</b>	http://www.nhvweb.net/nhhs/Science/bklingaman/		
<b>GOOGLE CLASSROOM:</b>	classroom.google.com (course code: _____)		
<b>EXTRA HELP:</b>	After School - Monday, Wednesday, and Thursday (late bus days) from 2:30-3:10pm Extra help available in the Nucleus (science resource center) throughout the day		

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**COURSE OBJECTIVE:**

Important concepts in chemistry needed for future courses in chemistry or related fields will be presented. Study habits and problem solving techniques acquired during the course should benefit the student in future study. Lab work is an important part of the course. The student will be expected to learn basic lab skills and to become familiar with lab equipment and its proper use.

**COURSE MATERIALS:**

- Text book: Modern Chemistry (by Sarquis, Sarquis)
- Online Textbook: **http://my.hrw.com** (username: \_\_\_\_\_ password: \_\_\_\_\_)
- Three ring binder (2 inch) and paper
- Scientific or graphing calculator (must be able to clear its memory before quiz/test)

**EVALUATION:**

- Grades are determined using a total points system. The percentage is then converted to an alphabetical letter grade as outlined in the NHHS student handbook. Rounding is not guaranteed, it is earned on merit.
- Methods of evaluation in this course:
  - Assignments - homework, Do Now, classwork, projects, presentations, etc. (variable points)
  - Quizzes - announced and unannounced quizzes will be given periodically (15-50 points)
  - Tests - always announced in advance and given at the end of each unit (60-100 points)
  - Exams – 9 Week Assessment, Midterm Exam, 27 Week Assessment, Final Exam (variable points)
  - Laboratory - experiments performed in class with follow-up questions/calculations (10-60 points)
  - Formal Lab Reports - written report graded with a rubric (50-100 points)

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**Do Now:**

- Upon entering the classroom, students will complete a Do Now problem (similar to their homework) and write their answer into their weekly worksheet. The Do Now will be collected randomly and checked for accuracy; this Do Now will then be reviewed and explained in class. If a student is absent during the week, they will be excused from completing that particular Do Now problem.

**HOMEWORK AND CLASSWORK:**

- The goal of homework is to reinforce and practice the topics covered in class. Students will be expected to complete daily assignments which will be checked in class at random. If a student is absent during the week, they are still responsible for completing their homework and showing the teacher.
- A typical class day may consist of lesson notes/examples and practice problems, lab experiments/demos, or group activities/ projects.
- If students are caught copying or sharing work, all parties involved will lose credit for the assignment, **\*\*DO YOUR OWN WORK!** It is the only way you will succeed\*\*

**LATE ASSIGNMENTS:**

- Daily homework and Do Now assignments will not be accepted late.
- Long term assignments (such as lab reports or projects) will lose 20% credit for each day that they are turned in late. The assignment will not be accepted after one week late.

### **LABORATORY:**

- Students will be told in advance of upcoming lab experiments so that they may dress appropriately. No students can participate in any lab activity without proper laboratory attire. Reading, highlighting, and answering pre-lab questions contained within Lab handouts will be assigned for homework periodically.
- It is possible that students may receive a “pop” lab quiz when they come to class. Students should prepare themselves by understanding the basics of each lab, such as: key equipment, materials, concepts, procedures, and safety concerns involved with the lab ahead.
- Inability to follow the lab safety rules or to endanger the wellbeing of oneself or others will result in an immediate dismissal from the lab, zero credit earned for the lab, and disciplinary action.

### **CHROMEBOOKS/CELLPHONES:**

- No cellphones or Chromebooks are to be used unless specifically instructed by the teacher. The device will be confiscated and returned with a disciplinary referral. If the student feels they need to use the device, they must ask the teacher and get approval before using the device in class.

### **ABSENCES:**

- If a student misses a class, they are expected to make up all missed work within according to the guidelines written in the NHHS student handbook.

### **ADVANCED CHEMISTRY COURSE CURRICULUM (GROUPED BY MARKING PERIOD):**

**Unit 1:** *Safety*

**Unit 2:** *Matter and Change*

**Unit 3:** *Measurements and Calculations*

**Unit 4:** *Atomic Theory and Structure*

**Unit 5:** *Electrons in Atoms*

**Unit 6:** *Periodic Table and Trends*

**Unit 7:** *Chemical Bonding*

**Unit 8:** *Chemical Formulas and Compounds*

**Unit 9:** *Chemical Equations and Reactions*

**Unit 10:** *Stoichiometry*

**Unit 11:** *States of Matter*

**Unit 12:** *Thermochemistry*

**Unit 13:** *Gases*

**Unit 14:** *Solutions*

**Unit 15:** *Reaction Kinetics*

**Unit 16:** *Acids and Bases*