

**Chemistry II Syllabus**  
2009-2010 School Year  
Miss Gurganus

**Course Description/Overview:**

Chemistry II is a second-year chemistry course designed to allow students to expand on topics learned in first-year Chemistry, explore new chemical topics, experience new lab experiments, and prepare to succeed on the AP Chemistry test. Students will follow a rigorous, fast-paced curriculum of hands-on laboratory activities, lectures, demonstrations, activities, and book work. This course will emphasize mathematical calculations related to chemistry principles. Students should expect to do a minimum of five hours of homework each week.

Prerequisites:           Grade of C or better in Chemistry and Algebra II

**Class Binder/Folder and Notes:**

Each student must bring a binder or folder to class each day to organize papers for this class. The class binder/folder must be brought to class by **Monday, September 14, 2009**. It will be collected on that day and evaluated for 2 points.

The class binder/folder should be labeled on the front (in any school-appropriate way the student chooses) with the **student's full name** (first and last), class name (**Chem II or Chemistry II**), **class hour**, and teacher's name (**Miss Gurganus**).

What should be kept in the binder/folder?

1. a spiral notebook or lined paper for class notes
2. this class syllabus
3. other handouts, homework, and worksheets
4. Student Safety Contract
5. the illustrated lab equipment handout
6. How to Write a Chemistry Lab Report handout
7. other lab handouts
8. reference charts

If a student chooses not to provide a binder or folder, a binder or folder will be provided for him/her that will be returned to the school at the end of the semester/school year.

**\*\*Keep your binder/folder organized every day!\*\***

**Course Content:**

This course will cover as much of the AP Chemistry curriculum as possible in order to prepare students to take the AP Chemistry test on May 11, 2009, if they wish.

Here are planned topics:

- lab safety
- review of first-year chemistry
- types of chemical reactions
- solution stoichiometry
- redox
- organic and biological molecules
- gases

- thermochemistry
- atomic structure and periodicity
- spectrophotometric analysis
- bonding
- liquids and solids
- properties of solutions
- chemical kinetics
- chemical equilibrium
- acids and bases
- applications of aqueous equilibria
- transition metals and coordination chemistry
- spontaneity, entropy, and free energy
- electrochemistry
- nuclear chemistry

Approximately one day each week will be used for student lab work.

Textbook: *Merrill Chemistry* (Glencoe/McGraw-Hill, 1995)

### **Guidelines for Success:**

Successful students in Chemistry II . . .

- remember enough from first-year chemistry to serve as a solid foundation
- have a positive attitude about chemistry and math
- believe they can be successful if they put in enough effort
- realize mistakes are part of the learning process
- respect the hazards of chemicals and take safety procedures very seriously
- set aside 30-60 minutes each night for chemistry homework or to study chemistry
- come to class prepared each day, bringing papers, notes, a calculator, and a writing utensil
- use a binder/folder and agenda planner to stay organized
- have the necessary resources at home to do chemistry assignments (textbook, blue or black ink pens, a dictionary [print or on-line], and a scientific calculator)
- are willing to work hard and know that chemistry comes easily to very few people
- ask for help, come in for help, and borrow resources as needed

### **Extra Help and Absent Assignment Make-up Times:**

Miss Gurganus is available **before school (6:30 - 7:25 am) and after school (2:50 - 4:00 pm) on Mondays and Thursdays**. Students may come in at those times for extra help or to complete missed work.

### **Classroom Rules:**

Each student is to:

- **arrive at class each day and on time.** When the bell rings, each student should be in his/her seat, ready to learn.
- **come to class prepared.** Pencil/pen, calculator, agenda planner, class notes, and class binder/folder should be brought to class every day. Pencils and pens may be borrowed for collateral.
- **be attentive.** When the teacher is talking, students should be listening.

- **conduct himself/herself responsibly, courteously, and considerately at all times.**
- **leave distractions outside the classroom.** Coats, hats, cosmetics, food, beverages, grooming supplies, phones, and music do not belong in class. Leave them in lockers, in bags, or at home.
- **follow all safety guidelines and procedures.**
- **follow all Lincoln High School rules.**

**Activities:**

Students in Chemistry II listen to lectures, try example problems, write lab reports, do laboratory exercises/experiments, discuss ideas with other students, take quizzes, take tests, do homework, use resource books to research information, and read from their textbooks.

**Grades:**

Grades will be determined by the following breakdown:

Tests and Quizzes	50%
Labs and Projects	35%
Homework and Classwork	15%

Students are **not** allowed to work with any chemicals until they have signed the safety contract (along with a parent/guardian), passed the safety quiz with a minimum of 80%, and completed the required pre-lab. **Labs missed due to the student not meeting these requirements, arriving unprepared, or arriving more than 10 minutes late may not be made up.**

At the end of each quarter, points are totaled and divided by total points possible. **Grades will be assigned according to the scale below:**

100% - 93%	A	76% - 73%	C
92% - 90%	A-	72% - 70%	C-
89% - 87%	B+	69% - 67%	D+
86% - 83%	B	66% - 63%	D
82% - 80%	B-	62% - 60%	D-
79% - 77%	C+	<b>Below 60%</b>	<b>E</b>

\*Please note that if the school or district implements a different grading scale, that new scale will be used in place of this one.\*

For the semester grade, the percentages of the first and second quarters will be averaged with the semester exam in the following way:

First quarter grade.....	40 %
Second quarter grade.....	40 %
Semester exam.....	<u>20 %</u>
Semester grade .....	100 %

In order to receive credit (a passing grade) for a semester, two of the three course components (first quarter, second quarter, and semester exam) must be passed with at least sixty percent.

## **Classroom Procedures**

### **Entering the Classroom:**

Students are expected to enter the classroom and go directly to their seats. Students should be seated before the bell rings.

### **Tardy to Class:**

A student is tardy if he/she is not in the classroom when the bell rings. See the student handbook for penalties for frequent tardies.

### **Paper/Pencils:**

For most assignments, tests, quizzes, and homework, any writing utensil may be used (pencil, pen, marker, etc.). For lab reports, students must use a (dark) blue or black ink pen. Each student is provided with one spiral notebook to use for notes and assignments.

If a student arrives to class without a writing utensil, he/she should either give Miss Gurganus collateral to trade for one OR check the free cup on the front counter. Sheets of lined paper are also provided on the front counter for students who do not bring their own.

### **How to Find Out What the Daily Assignments Are:**

A list of weekly assignments is handed out to students each Monday. Each night's assignment is also written on the board each day. A monthly calendar of assignments is kept in the front of the classroom. Class assignments are also listed on Miss Gurganus's web site:

**<http://web.lincoln.k12.mi.us/buildings/hs/gurganus> (or [missgurganus.com](http://missgurganus.com))**

It is the student's responsibility to keep track of what he/she has missed and what he/she needs to make up.

Agenda planners should be used to keep track of homework and assignment due dates.

### **Turning In Assignments:**

Homework is to be turned in to the In Box on the front counter either before class begins or when Miss Gurganus asks for it.

### **Returning Assignments to Students:**

Assignments are returned to students as they are graded. They are either handed to students directly or placed on their desks.

### **Finding Out Grade Status:**

Students and parents may check PowerSchool for the most updated grade status. For a grade status update during class, students should ask to see grades near the end of class each Friday.

### **Student Responsibilities After an Absence:**

It is the student's responsibility to keep track of which days he/she has missed. **Do not ask me for a list of days absent. Use your agenda planner to record these or check your attendance in PowerSchool!**

After a student has looked at the assignment calendar and/or website, the student should ask the teacher on the day he/she returns from an absence for any assignments missed.

Excused absences:

Assignments may be made up for full credit **ONLY IF THE OFFICE EXCUSES THE ABSENCE(S)**. In general, for every day missed and excused, the assignment's due date is extended one day. Missed class notes should be obtained from fellow classmates; notes are not available from Miss Gurganus.

Unexcused absences:

**If an absence is unexcused by the office, the work may not be made up for credit.** A student with an unexcused absence receives a zero for all work that occurred that day, was due that day, and was assigned that day.

Missed tests, quizzes, and group/lab work:

If a student misses a lab, test, quiz, or group work, it must be made up before or after school. Class time will **not** be used to make up missed assignments. Students have one week from the date of the lab, test, quiz, or group work to make up the assignment.

### **Late, Missing, or Incomplete Assignments:**

Assignments are **not** accepted late and are due at the beginning of the class hour on the date they are due. Students have one week from the date of a missed test, quiz, or lab to complete the assignment. **Binder/folder/notes checks may not be completed late; if you don't have them at a check, you receive a zero.**

In this class, it is better to turn in an incomplete assignment than no assignment, as work is not accepted late.

### **Communication Procedures With Parents/Guardians:**

A weekly e-mail is sent out to parents who request it.

The best times to reach me by phone are before 7:00 am, from 9:00 am to 9:30 am, and after 4:00 pm.

### **TEACHER CONTACT INFORMATION:**

Phone number: (734) 484-7000 extension 7655 [I have 24-hour voice mail]  
E-mail address: gurganus@gw.lincoln.k12.mi.us [best way to contact me!]  
Web site URL: <http://web.lincoln.k12.mi.us/buildings/hs/gurganus>  
(or [missgurganus.com](http://missgurganus.com)) [website updated daily]  
Mailing address: Lincoln High School, 7425 Willis Road, Ypsilanti, MI 48197

### **Ending Class:**

When the bell rings and students are seated, the teacher dismisses the class. If all students are not seated, the class waits for all students to be seated, and then the class is dismissed.

On lab days, ten minutes will be given for clean-up, signatures, and washing hands. Passes will not be written for students who take longer than ten minutes.

### **Consequences for Classroom Rule Violations:**

Failure to follow one of the above policies or procedures will usually result in a warning. If the infraction is repeated or is very serious, one or more of the following can be expected:

- change of seat assignment
- time spent in the hall
- phone call home
- referral to the office

**\*\*Violating a lab safety rule may result in permanent removal from the course\*\***

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### **First Night's Homework: Safety Lecture – By Students, For Students (2 points)**

You have heard the safety lecture here at LHS at least once (and maybe up to three times) before. It's time to see what you remember and how you can improve on a good thing. Each student will pick (or be assigned) a rule from the LHS student safety contract. Each student will then present the rule to the class on Wednesday, September 9, 2009, or Thursday, September 10, 2009. Your presentation **MUST** include reading the rule out loud to the class and explaining it in some way, but how you choose to do that is up to you. Some ideas:

- Start with a safety joke (find one or write one!)
- Tell a superbly sad safety story (fact or fiction) related to your rule
- Describe how you would've died if not for your knowledgeable lab partner (or how you wouldn't have been in harm's way if you'd had a safer lab partner)
- Recite a safety poem related to your rule (or convert the safety rule into poetry)
- Sing a safety jingle/song/rap based on your rule
- Bring in a home-made safety video about your rule
- Or think of something completely different and more "you" that would help another student understand and remember your rule

**Wow the class (and teacher) and help them to never forget your safety rule!**