

Chemistry, Honors

Instructor: Mr. D. Bloomenstiel, Room 207

Dear Parents:

My name is Don Bloomenstiel (pronounced: blue-men-steel) and I would like to welcome you and your child to the 2007-2008 school year at Edna Karr High School. As a former research chemist, I bring a unique scientific perspective to the student. I have devoted a lifetime to the pursuit of science and have a strong desire to share my passion for science with your child. Chemistry and physics are the building blocks of the universe and life itself. By participating in my chemistry course your child is taking the first steps of a voyage to view nature's grand scheme. It is my desire that your child find the sights along this voyage to be so captivating that he or she will want to continue this voyage the rest of their lives. The journey is not always an easy one. New and difficult terrain must be traversed. As your child's teacher and guide, I hope to make the voyage an informative and inspiring journey into the realm of chemistry and the natural world.

Open House

Open house is scheduled for August 27, 2008 at 7:00 PM

Course Outline:

This course and the associated State Grade-Level Expectations focus on the properties and reactions of matter. Students examine chemical interactions and learn about their applications in fields such as agriculture, engineering, manufacturing, and medicine. Students will perform laboratory investigations to explore chemical reactions and the properties of substances. Many experiments that we will perform are real world, real time investigations and are relevant to the lives of today's students. **Successful completion of this course and a passing score on the LEAP/GEE science or social studies exam are required for graduation.**

Major topics

First Semester

First Quarter

Inquiry/ Scientific Method
Scientific Measurements
Problem Solving
Matter and Change
Atomic Structure
Nuclear Chemistry

Second Quarter

Chemical Formulas and Equations
Chemical Quantities.
Chemical Bonding
Chemical Reactions
Periodicity

Students will complete an investigative science project during the first semester

Second Semester

Third Quarter

Stoichiometry
Solids and Liquids
Graduation Exit Exam (GEE) prep, science
Science Graduation Exit Exam (GEE)

Fourth Quarter

Solutions
Behavior of Gases
Acids and Bases

Students will complete a multi-media science research project during the second semester. Please see attached rubric.

Required Materials

Learning to take notes is an important college preparatory skill. I require that notes be taken in ink and therefore the student must bring at least two ink pens to class everyday. Students also need a proper notebook for note taking. Every student is required to have the following items and bring them to class everyday:

1. Dedicated notebook or a dedicated section (divided by separators) of a notebook for chemistry notes.
2. **Bound composition notebook** to be used as a journal and laboratory notebook
3. Scientific calculator. Casio makes excellent calculators at a significant savings over TI.
4. Folder or dedicated pocket in a notebook for chemistry papers only
5. A minimum of two pens and a pencil

Lab Fee

A laboratory experience is an important part of your child's learning experience. Major renovations to our chemistry lab have just been completed. Your child is now able to participate in laboratory activities that were not available in the past. However, these activities involve supplies that are consumed during the activity and are constantly in need of replenishment such as chemicals and disposable Latex gloves. Also, a certain amount of breakage of equipment is unavoidable and these items need to be replaced. Therefore we are requiring that each chemistry student pay a \$15 lab fee.

Please be aware that Edna Karr High School will seek reimbursement for items that are willfully and purposely destroyed by students (such as faucets, gas valves and other lab equipment) and items that are not returned that have been assigned to your child's care such as computers and other electronic devices.

Textbook

The assigned textbook is "Modern Chemistry" published by Holt, Rinehart, and Winston. The replacement cost of this textbook is \$56.00. These textbooks are relatively new most being acquired 1 – 3 years ago. Therefore it is very important that these textbooks are protected with a book cover and care be taken to keep the books in good condition. Additional resources such as lab manuals, workbooks, and review guides will be available in the classroom. My email address is dbloomenstiel@algierscharterschools.org

How to Contact the Teacher

I look forward to meeting and working with you. My door is always open to parents. Please contact me anytime with any concern you may have. My free period and conference time is scheduled for second period, 9:40 – 10:30 in the morning. You may reach me at the phone number indicated at the top of this letter. I am also available before and after school most days. I would be more than happy to meet with you upon your request. My email address is dbloomenstiel@algierscharterschools.org

Tutoring hours

Unless I am otherwise committed to a school function I am available to help your child every afternoon from 4:00 – 5:00. If given a little advance notice and I can also schedule a time before school for your child and I to meet.

Grades:

The Edna Karr grading system is based on semester grades. Exams are given at the end of the semester. The exam is a 90 minute cumulative exam (covers the entire semester) and counts for 25% of the student's grade. Students are required to complete a project at the end of each semester. The semester 1 project is an investigative project and report that will be present to the class and to the Edna Karr Science Fair. The semester 2 project is multi-media presentation (web page, PowerPoint, audio/video, etc.) on a topic that I will assign to individual students. Students will receive a progress grade at the end of the first and third quarter. Half (.5) unit is earned at the end of the semester for students that successfully complete (receive a passing grade) the semester.

Categories and approximate percentage (of the total grade) are as follows:

Test and quizzes	25%
All class work including labs	15%
Participation	10%
Homework	10%
Semester Project	15%
Semester exam	25%

Grading scale

90% - 100%	A
84% - 89%	B
75 - 83%	C
70 - 74	D
Below 70	F

Expectation of study habits

Chemistry is a college preparatory course and therefore is taught at a high level. Your child will receive a reading assignment at least three times a week, a minimum of two written homework assignments or problem sets per week, a weekly laboratory report to complete, a quiz every Friday and a unit test every two - three weeks. I would expect my students to study, review, and work on completing assignments no less than a half hour per night, five nights per week. A student that desires to earn an above average grade will usually need to study an hour per night or more.

Students are expected to:

- complete daily assignments or work missed due to illness or school activities
- complete long-term assignments
- review work presented/discussed each day
- study for tests, exams (daily review makes this easy)

Classroom rules

1. Only one person, whether it is teacher or student, can address the class.
2. Only leave your seat during an appropriate time and with teacher's permission.
3. Follow all the teachers' instructions immediately (critical during lab work).
4. Be respectful to the teacher and all students.
5. No eating in the classroom.
6. Use of cell phones or other electronic devices (other than a calculator) is prohibited. *If we hear it or see it, we take it for two weeks.*
7. Teacher's desk and lab table are off limits to students.

Consequences for rule breaking:

1. After school classroom detention.
2. After school classroom detention and phone call to parent(s)
3. Office referral to disciplinarian
4. Suspension.

Serious offences: immediate office referral.

Prohibited Items

- Large amounts of money or expensive jewelry should not be brought to school.
- Radios, Walkman, cassette players, CD players, MP3 players, and beepers are prohibited and will be confiscated. **Cellular phones are allowed but must be turned off before the student enters the school building and must be kept out of view.** *Students are not allowed to use cellular phones during the*

school day. Improper use will result in the confiscation of the cellular phone. Cell phones and other confiscated electronics will remain locked in the school's vault for two weeks.

Dress code/ Uniform Policy

The official Karr school uniform consists of a purple golf shirt, khaki long pants, black belt, socks and black closed toe shoes. Uniforms are worn daily and are neat, clean, and follow school uniform guidelines. Shirts must be tucked in and *pants MUST be worn at the waist*. Oversized belt buckles and oversized jewelry are not permitted. Infractions will result in being assigned school wide detention held after school in the cafeteria.

ACADEMIC HONESTY POLICY

Karr students are expected to complete all assignments and all tests/exams honestly. To ensure that all Karr students produce their own work, the following Academic Honesty Policy is enforced. For the purposes of this policy, cheating is defined as "accepting or providing work or information that is not one's own."

Type of Offense	Major: <u>Exam, Chapter/Unit Test, Research/Term Paper</u>	Minor: <u>Quiz, Class work, Homework</u>
1st Offense	F on assignment, parent-teacher conference	F on assignment, phone call to parent
2nd Offense	F on assignment, in-school counseling, removal from elected office/position, unable to represent the school at outside academic or leadership functions	F on assignment, parent-teacher conference
3rd Offense	F on assignment, Saturday School	F on assignment, in-school counseling, removal from elected office/position, unable to represent the school at outside academic or leadership functions
4th Offense	F on assignment, suspension	F on assignment, Saturday School,
5th Offense	F on assignment, suspension	F on assignment, suspension
6th + Offense	F on assignment, suspension	F on assignment, suspension

Advanced Placement (AP) Chemistry

Instructor: Mr. D. Bloomenstiel, Room 207

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Open House

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Course Outline:

AP[®] Chemistry is a one-credit course that parallels the material covered during the two semesters of entry level college chemistry courses. Successful completion of this course and the AP Chemistry Exam given May 12, 2009 qualifies your child for a possibility of earning six college hour credits for General Chemistry I and II lecture courses offered in most universities. It is also possible to earn an additional 1 – 2 college hour credits for laboratory work (see below). It is best to check with prospective universities as to their policy regarding AP courses and earning college credits.

Laboratory Program

In order to earn 1 – 2 hours of credits for a college chemistry laboratory course, many universities require that students must demonstrate that they have participated and succeeded in a college level laboratory program. A college lab course typically meets for a minimum of one three hour block per week. Most AP labs require a 2 hour blocks to complete. AP Chemistry labs are college level lab experiments and the labs are conducted after school and/or during a three hour session on the weekend. Students are required to keep proper records of all experimental work done in the course. They will end the year with a document that is a source of pride and that demonstrates the growth of their skills. This record is an important document that may be requested by the Chemistry Department at a college or university when a decision is needed regarding credit for a college lab course and/or placement in more advanced chemistry courses. This record will consist of a laboratory notebook and all written lab reports.

Major topics

First Semester

First Quarter

Foundations, Atoms, Ions and Molecules

Chemical Nomenclature and Formulas

Chemical Reactions

Stoichiometry

Gas Laws

Liquids and Solids

Second Quarter

Thermochemistry

Atomic Structure

Nuclear Chemistry

Periodicity

Chemical Bonding

Properties of Solutions

Students will complete an investigative science project during the first semester. Please see attached rubric.

Second Semester

Third Quarter

Chemical Equilibrium
Acids and Bases
Aqueous Equilibria
Chemical Kinetics
Chemical Thermodynamics

Fourth Quarter

Chemical Thermodynamics
Electrochemistry
AP Exam Review

Students will complete a multi-media science research project during the second semester. Please see attached rubric.

Required Materials

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Please be aware that Edna Karr High School will seek reimbursement for items that are willfully and purposely destroyed by students (such as faucets, gas valves and other lab equipment) and items that are not returned that have been assigned to your child's care such as computers and other electronic devices.

Textbook

The assigned textbook is "Chemistry, 7th Edition" by Zumdahl and Zumdahl. The replacement cost of this textbook is \$139.00. These textbooks are new. Therefore, it is very important that these textbooks are protected with a book cover and care be taken to keep the books in good condition. In addition, each student will be issued a laboratory manual: Experimental Chemistry by James Hall, replacement cost \$66.00, and an AP exam prep manual: "Fast Track to a 5", replacement cost \$26.

How to Contact the Teacher

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Categories and percentage (of the total grade) are as follows:

Test and quizzes	30%
Labs	15%
Homework	20%
Semester project	10%
Semester exam	25%

Grading scale

90% - 100%	A
84% – 89%	B
75 – 83%	C
70 – 74	D
Below 70	F

Expectation of study habits/ homework

AP Chemistry is a college course and therefore is taught at a college level. **Your child has homework every night.** Your child will receive a reading assignment and/ or problem sets every day, a weekly laboratory report to complete, a quiz every Friday and a unit approximately test every two - three weeks. Most homework will be completed online using the Eduspace program. Eduspace is accessible from any internet connection. The program will assign each student a different version of each numeric problem. ***I suggest students form study groups with their fellow students and work together on homework assignments and prepping for tests and exams.*** In addition, the student should spend an hour working on lab assignments for every hour the student spends in lab. Many lab activities have pre-lab questions that must be completed before the beginning of the lab activity commences. A student that desires to earn an above average grade will usually need to study more than an hour per night. Your child has been given a detailed course syllabus listing all topics and lab experiments to be preformed during the year. I suggest you review this document with your child.

Students are expected to:

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2nd Offense	F on assignment, in-school counseling, removal from elected office/position, unable to represent the school at outside academic or leadership functions	F on assignment, parent-teacher conference
3rd Offense	F on assignment, Saturday School,	F on assignment, in-school counseling, removal from elected office/position, unable to represent the school at outside academic or leadership functions
4th Offense	F on assignment, suspension	F on assignment, Saturday School,
5th Offense	F on assignment, suspension	F on assignment, suspension
6th + Offense	F on assignment, suspension	F on assignment, suspension

Multimedia Project

CATEGORY	4	3	2	1
Presentation	Well-rehearsed with smooth delivery that holds audience attention.	Rehearsed with fairly smooth delivery that holds audience attention most of the time.	Delivery not smooth, but able to maintain interest of the audience most of the time.	Delivery not smooth and audience attention often lost.
Content	Covers topic in-depth with details and examples. Subject knowledge is excellent.	Includes essential knowledge about the topic. Subject knowledge appears to be good.	Includes essential information about the topic but there are 1-2 factual errors.	Content is minimal OR there are several factual errors.
Originality	Product shows a large amount of original thought. Ideas are creative and inventive.	Product shows some original thought. Work shows new ideas and insights.	Uses other people's ideas (giving them credit), but there is little evidence of original thinking.	Uses other people's ideas, but does not give them credit.
Workload	The workload is divided and shared equally by all team members.	The workload is divided and shared fairly by all team members, though workloads may vary from person to person.	The workload was divided, but one person in the group is viewed as not doing his/her fair share of the work.	The workload was not divided OR several people in the group are viewed as not doing their fair share of the work.
Mechanics	No misspellings or grammatical errors.	Three or fewer misspellings and/or mechanical errors.	Four misspellings and/or grammatical errors.	More than 4 errors in spelling or grammar.
Requirements	All requirements are met and exceeded.	All requirements are met.	One requirement was not completely met.	More than one requirement was not completely met
TOTAL				

	were changed or how the experimental design could be changed.			
Display Board	Clear, accurate diagrams are included and make the experiment easier to understand. Diagrams are labeled neatly and accurately.	Diagrams are included and are labeled neatly and accurately.	Diagrams are included and are labeled.	Needed diagrams are missing OR are missing important labels.
Error Analysis	Experimental errors, their possible effects, and ways to reduce errors are discussed.	Experimental errors and their possible effects are discussed.	Experimental errors are mentioned.	There is no discussion of errors.
Scientific Concepts	Report illustrates an accurate and thorough understanding of scientific concepts underlying the lab.	Report illustrates an accurate understanding of most scientific concepts underlying the lab.	Report illustrates a limited understanding of scientific concepts underlying the lab.	Report illustrates inaccurate understanding of scientific concepts underlying the lab.
Conclusion	Conclusion includes whether the findings supported the hypothesis, possible sources of error, and what was learned from the experiment.	Conclusion includes whether the findings supported the hypothesis and what was learned from the experiment.	Conclusion includes what was learned from the experiment.	No conclusion was included in the report OR shows little effort and reflection.
Safety	Lab is carried out with full attention to relevant safety procedures. The set-up, experiment, and tear-down posed no safety threat to any individual.	Lab is generally carried out with attention to relevant safety procedures. The set-up, experiment, and tear-down posed no safety threat to any individual, but one safety procedure needs to be reviewed.	Lab is carried out with some attention to relevant safety procedures. The set-up, experiment, and tear-down posed no safety threat to any individual, but several safety procedures need to be reviewed.	Safety procedures were ignored and/or some aspect of the experiment posed a threat to the safety of the student or others.
TOTAL				

SCIENCE FAIR PROJECT RUBRIC

SCIENCE FAIR PROJECT TITLE

CATEGORY	4	3	2	1
Scientific Problem	The problem is clearly identified and stated.	The problem is identified and is stated in a somewhat unclear manner.	The problem is partially identified, and is stated in a somewhat unclear manner.	The problem is erroneous or irrelevant.
Experimental Hypothesis	Hypothesized relationship between the variables and the predicted results is clear and reasonable based on what has been studied.	Hypothesized relationship between the variables and the predicted results is reasonable based on general knowledge and observations.	Hypothesized relationship between the variables and the predicted results has been stated, but appears to be based on flawed logic.	No hypothesis has been stated.
Materials	All materials and setup used in the experiment are clearly and accurately described.	Almost all materials and the setup used in the experiment are clearly and accurately described.	Most of the materials and the setup used in the experiment are accurately described.	Many materials are described inaccurately OR are not described at all.
Procedures	Procedures are listed in clear steps. Each step is numbered and is a complete sentence.	Procedures are listed in a logical order, but steps are not numbered and/or are not in complete sentences.	Procedures are listed but are not in a logical order or are difficult to follow.	Procedures do not accurately list the steps of the experiment.
Variables	All variables are clearly described with all relevant details.	All variables are clearly described with most relevant details.	Most variables are clearly described with most relevant details.	Variables are not described OR the majority lack sufficient detail.
Data	Professional looking and accurate representation of the data in tables and/or graphs. Graphs and tables are labeled and titled.	Accurate representation of the data in tables and/or graphs. Graphs and tables are labeled and titled.	Accurate representation of the data in written form, but no graphs or tables are presented.	Data are not shown OR are inaccurate.
Analysis	The relationship between the variables is discussed and trends/patterns logically analyzed. Predictions are made about what might happen if part of the lab	The relationship between the variables is discussed and trends/patterns logically analyzed.	The relationship between the variables is discussed but no patterns, trends or predictions are made based on the data.	The relationship between the variables is not discussed.

Engineering Project/ Robotics

Instructor: Mr. D. Bloomenstiel, Room 207

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Open House

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Course Outline:

Engineering Project/ Robotics is an activity and project based course. Students learn the engineering process and by designing, building, testing, and modifying robots. During the course of the year, students will actively participate in the building of three robots. The first robot is a desk top model called a Vex robot. Students will program these robots to do a variety of tasks using C programming language. During the course of the first semester, students will research various aspects (power train, sensors, power distribution system, programming, and pneumatics) of the robot building process with an eye toward the design of our large competition robot. The second robot they build is also a Vex robot but is built as a prototype for the large competition robot used for the FIRST robotics competition that Karr participates in. The third robot built is the large competition robot used for the FIRST robotics competition. Students will form teams and work on various aspects of this complicated robot.

Major topics

First Semester

First Quarter

Introduction to Robotics

Introduction to Engineering

Vex robot build

Introduction to Vex Programming

Second Quarter

Robotic Arms and End Effectors

Robotic Locomotion

Physics and Robotics

Sensors

Robot Build Project & Class Competition

Second Semester

Third Quarter

Vex prototype design

Introduction to Electronics

Mechanical Properties

FRC robot design and build

Advanced C Programming

Fourth Quarter

FRC tournament

Tournament post analysis

Engineering Cycle

Robot modification and redesign

Advanced Mechanics

Semester Project

Required Materials

Learning to take notes is an important college preparatory skill. I require that notes be taken in ink and therefore the student must bring at least two ink pens to class everyday. Students also need a proper notebook for note taking. Every student is required to have the following items and bring them to class everyday:

1. **Bound composition notebook** to be used as a journal and engineering notebook
2. Folder or dedicated pocket in a notebook for robotics papers only
3. A minimum of two pens and a pencil

Textbook

There is no textbook. Handouts will be used in place of a textbook.

How to Contact the Teacher

I look forward to meeting and working with you. My door is always open to parents. Please contact me anytime with any concern you may have. My free period and conference time is scheduled for second period, 9:40 – 10:30 in the morning. You may reach me at the phone number indicated at the top of this letter. I am also available before and after school most days. I would be more than happy to meet with you upon your request. My email address is dbloomenstiel@algierscharterschools.org

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Categories and percentage (of the total grade) are as follows:

Test and quizzes	15%
Projects	35%
Participation	25%
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Grading scale

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Expectation of study habits

Students are expected to:

- complete daily assignments or work missed due to illness or school activities
- complete long-term assignments
- review work presented/discussed each day
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Classroom rules

1. Only one person, whether it is teacher or student, can address the class.
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3. Follow all the teachers' instructions immediately (critical during lab work).
4. Be respectful to the teacher and all students.
5. No eating in the classroom.
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Breakage or theft of equipment

Items that are specifically assigned to your child in writing such as laptop computers, classroom response remote controls, balances, hand held data collection devices, probes, robot controllers, transmitters, battery packs and charger, tools, any robot component or any other classroom equipment that is assigned to your child in writing is the student's responsibility. If any such item is not turned by the end of the class, the parent will be charged for the full replacement value if the item.

Please be aware that Edna Karr High School will seek reimbursement for items that are willfully and purposely destroyed by the student.

.ACADEMIC HONESTY POLICY

Karr students are expected to complete all assignments and all tests/exams honestly. To ensure that all Karr students produce their own work, the following Academic Honesty Policy is enforced. For the purposes of this policy, cheating is defined as “accepting or providing work or information that is not one’s own.”

Type of Offense	Major: <i>Exam, Chapter/Unit Test, Research/Term Paper</i>	Minor: <i>Quiz, Class work, Homework</i>
1st Offense	F on assignment, parent-teacher conference	F on assignment, phone call to parent
2nd Offense	F on assignment, in-school counseling, removal from elected office/position, unable to represent the school at outside academic or leadership functions	F on assignment, parent-teacher conference
3rd Offense	F on assignment, Saturday School,	F on assignment, in-school counseling, removal from elected office/position, unable to represent the school at outside academic or leadership functions
4th Offense	F on assignment, suspension	F on assignment, Saturday School,
5th Offense	F on assignment, suspension	F on assignment, suspension
6th + Offense	F on assignment, suspension	F on assignment, suspension