

Your Invitation to Success

I invite you to learn and understand more about the world around you by taking this chemistry course. I invite you to come to understand a bit about how things work. Chemistry provides explanations to everyday things like the gasoline in your car, the alcohol in a drink, the preservatives in your food, the heat provided in a hand warmer. Come and learn and understand materials in your world.

The Tools you will need:

- Successful completion of an equivalent pre-algebra course.
- Access to the internet, you can utilize the computer labs provided throughout KVCC.
- A required reference introductory chemistry textbook. The bookstore offers *Introductory Chemistry*, 4th Edition by Cracolice and Peters.

- Periodic Table.
- Scientific Calculator

Helpful Resources at KVCC:

- The Learning (Tutoring) Center
Texas Campus
Rm: 2220, Ph: (269)488-4397
Arcadia Campus
Rm: 121/122, Ph: (269)373-7815
- The Student Success Center
Texas Campus
Rm: 1510, Ph: (269) 488-4040
Arcadia Campus
Rm: 120, Ph: (269)373-7834

Top Ten Ways to Succeed in Basic Chemistry

1. Schedule enough time and make a commitment to attend each class and be prepared to participate.
2. Treat this class as a learning community. Work cooperatively with your peers to learn chemistry.
3. Read the provided supplemented reading material for each unit prior to class time and be prepared to share your discoveries.
4. Develop and organize the tools provided and developed to problem solve the investigated chemistry concepts.
5. Practice the Pick and Choose Problems provided with each unit.
6. Make a commitment to attend each class.
7. Seek help when needed. Utilize a tutor and/or your classmates to investigate and learn the chemistry concepts.
8. Ask questions and utilize the tools provided to seek the answers.
9. Investigate your world and make connections to the learned chemistry concepts with your environment.
10. Take ownership to your learning.

Section 30099

Classroom: 7120

Time: T/R 1:00-3:45

Office: 7470

Phone: (269)488-4961

Email: kim@chemicalkim.com

Hours: M/W 1:00-2:30

www.chemicalkim.com

Welcome to Basic Chemistry with Chemical Kim

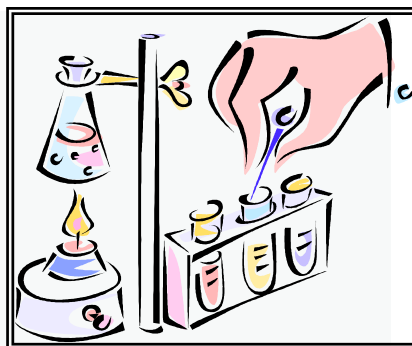


This Basic Chemistry course offers an exciting opportunity to learn about the chemical composition of the materials in your world. You will learn how to classify, name, measure, investigate, and react these materials. You will actively discover the importance of energy and its affect on material. You get to utilize the different states of matter to better understand the behavior of material. And most excitingly, you will find the key needed to "see" atoms, molecules, and particles.

Upon Completion of Success Learning Basic Chemistry

With successful completion of CHM 100 you will have developed the following knowledge and skills:

1. appreciate chemistry for its intrinsic aesthetic value and its past discoveries, discoverers, and understandings of matter and energy.
2. understand the ways chemists describe and model the behavior and properties of matter.
3. investigate matter to show evidence of the existence of atoms and classifying its parts.
4. utilize the periodic table as a tool towards investigating matter.
5. identify ionic, molecular, and acid compounds and write their names and formulas.
6. determine the amount of atoms, molecules, or particles contained in sample material.
7. investigate chemical reactions and write their associated chemical equations and the ability to calculate the amount of material reacting and being produced.
8. investigate the behaviors of gases and determine their changes associated with pressure, volume, and temperature.
9. prepare different types of solutions and investigate their concentrations.
10. identify acids and their behaviors in your environment.
11. Be aware of the application of scientific principles in chemistry and their relations to the world in which you live.
12. Demonstrate the ability to work both independently and in cooperation with others and to develop a commitment to lifelong learning.



Assessing Success in Basic Chemistry

Each student will accept responsibility for his/her own learning and performance in chemistry and will be prepared to engage in learning for each class session.

Point Distribution:

30% Weekly Assigned Assessments taken online

25% Weekly Lab & In Class Discovery Activities

45% Three In Class Exams

Grade Scale:

100 to 90% = 4.0, 89 to 85% = 3.5,

84 to 80% = 3.0, 79 to 75% = 2.5,

74 to 70% = 2.0, 69 to 65% = 1.5

64 to 60% = 1.0, 59% or below = 0.0

Assignment Submission Policy:

- Prepare to Investigate: Reading the supplemental material with each unit is essential to understanding the chemistry concepts. Continually apply your learning with practicing on the provided Pick and Choose questions and activities to perform outside of class. These items are not graded but will assist you with the necessary tools for successful learning of the chemistry concepts.
- Competing the Online Assessments: Only one submission is allowed. Because these assessments are online and active for a week for completion, there will be no allowance for late submissions of the assessments.
- Late Submission: You must arrange late submission of the discovery activities for missed class at least 24 hours before the due date and time.
- Missed Exams: Avoid missing exams! You must contact me at least 24 hours before exam to arrange a make up. Under special circumstances of illness or accident you must contact me as soon as possible to arrange a make up.

Cheating Policy:

- Cheating of any form will not be tolerated. Those engaged will receive a zero grade.

A Typical Day of Learning in Basic Chemistry Class

Class will, of course, vary from day to day, but the general format will look something like this:

Your world...

Class will start with an open discussion of shared observations, investigations, and questions pertaining to behaviors of matter in your world.

We are learning...

A brief lecture stating the particular unit learning objectives, presentation of chemical concepts we will be investigating, problem solving, and an explanation to the learning activity.

The learning activity...

You will work in partnership or groups to build on what you have investigated outside of the class and the lecture material pertaining to the unit of study. An activity of guided worksheets and/or hands-on investigation will be provided to guide you in this process.

Sharing the activity...

Collaboratively groups will share their results to the activity to the class. A discussion and brief closing lecture to restate the unit learning objectives and chemical concepts learned.