

Indiana Academy AP Chemistry Course Information Spring 2022

Chris Norton

Office info: EL009 765-285-7456

email: ccnorton@bsu.edu

- It is *very important* to me to respond to your questions or concerns promptly; however, please note that I do receive *a lot* of emails. If for some reason I do not respond within 24 hours, please resend your original email and/or leave me a voicemail message (765-285-7456).
- Please note that if you email me after midnight, it is highly unlikely that I will read that email until sometime the following morning.

Meeting Times:

- **1:00- 1:55 MWF Room: Burris 210**
- Lab: Tuesday 10 - 12

Office Hours

- My Office:
 - a. Monday 8 a.m. – 10 a.m.
 - b. Tuesday and Thursday 4 p.m. – 6 p.m.
 - c. Friday 8 a.m. – 10 a.m.
- Burris 210:
 - a. Thursday 8 a.m. – 11 a.m.

I can also meet by appointment.

Course Overview

This is an accelerated course designed to review and extend the concepts introduced in General Chemistry. It is comparable to a course for science majors in freshman college chemistry. Advanced laboratory work is emphasized. This course is designed for students who hope to advance place in college chemistry and/or whose career goals include science, engineering or the medical sciences. Many students consider this class to be one of the most difficult classes they have ever taken.

* Ball State University offers 4 college credit hours in CHEM 111 and 112 to students who complete this course.

Textbook:

Chemistry, 9th Ed.; Zumdal and Zumdal (2017)

Philosophy

Learning is NOT a spectator sport. The ultimate responsibility for success in learning lies with you, the student. Learning is a process by which a person seeks to make sense out of the world. The view of the world or any part of it, held by a person is as individual as fingerprints. The only way we are able to share knowledge is by verbal and written communication. The quality of the communication depends on the quality of the language used. A teacher is a facilitator for learning. The teacher structures experiences which provide the maximum probability that students can make sense out of the material presented.

Role of the Teacher

My responsibility is to present experiences that will assist you to make sense out of chemistry. These experiences can be altered, based on your input, to improve your chances of being successful. It is imperative that communications are two way so that we can remain informed about how you view the concepts we are studying.

It is also my responsibility to design exams, quizzes, and lab assessments that fairly evaluate the level of your success. You have the right to know where you stand at all times during the semester and to ask when you do not understand why you were evaluated in a particular manner.

Your Role

You are in control of your success in this class. To some extent your success will be a function of your background, but the major factor in your success will be the quality and quantity of time and effort you put into your studies. You must keep in mind that 1) your principal job at this stage in your life is to be a student; and 2) chemistry is not the only course you are taking. You must balance your time such that you maximize success in all courses. I will provide several vehicles to assist you. You must elect to use them.

As this is a college course, you will need to spend approximately one to two hours outside of class on your studies for every hour you spend in class. This is a general guideline; some of you will spend less time and some will spend more. Before you get too far into the semester, you need to *sincerely evaluate your outside commitments and other courses to determine if you have the time needed to put into this course.*

Academic Integrity

Academic integrity is essential to the mission of the Academy. All students deserve a healthy learning environment and evaluations that are based on their honest independent efforts. A clear sense of academic honesty and responsibility is fundamental to good scholarship and learning.

You are encouraged to *form study groups and to problem solve together.* The normal expectation is that the work on exams is your own and that homework, take-home quizzes, and lab reports, while discussed with other students, is of your own creation. Academic dishonesty will not be tolerated. Please refer to the student handbook.

Examples of dishonesty include sharing your work with another student either electronically or on paper (including labs!), using another student's work to complete your work, and copying answers from the Internet or from the solution manual. You may use resources to help complete your work; you may not directly use another's work.

Homework

Your homework is designed to help you practice the problems typical of a college chemistry course. It is your responsibility to learn how to do these problems. Again, I encourage you to form study groups and work to solve the problems together; however, the ultimate goal is for you to learn how to solve these problems independently.

- At the end of each section, you will you have homework problems to turn in.
- They will be graded on completion.

The solution manual is posted on Canvas. It is a violation of copyright policy to download or print the manuals. The solution manual is there as a *teaching tool.*

Late Work

Late work is not accepted.

Quizzes

Every Wednesday you will have a polyatomic ion quiz that will contain a mix of the symbol and the terms. You will have five minutes to complete this quiz

- If you miss a quiz, **you** must schedule a time with me to take the quiz no later than the following Monday or you will earn a zero on the quiz.
- If you earn between 90 – 99% you are in the “cushion zone.”
 - For example, say on the following week you earn less than 90%, your new score will be calculated as follows: $Score = Previous\ Score - (100 - New\ score)(10\%)$
 - If your score is still in the cushion zone, and then the following week you again earn less than 90%, your new score will be calculated as follows: $Score = Previous\ Score - (100 - New\ score)(20\%)$
 - Each successive week that your score is below 90%, the percentage will increase by 10%, until you are out of the cushion zone.
- If you earn consecutive 100's, then each week 10% will be added.
 - If you have bonus points, and you earn less than 90% on the following quiz your score will be calculated as follows: $Score = Previous\ Score - (100 - New\ score)$
 - If you have bonus points greater than 110%, the extra credit points on the quiz will count as 10% of the otherwise calculated value.

Attendance/Tardies

It is extremely important that you attend **all** class periods. The pace of this course is extraordinarily fast and missing a day can seriously put you behind in this course; however, I do understand that absences happen. Please adhere to the following guidelines in the event you miss a class.

- If you are absent for a school scheduled event such as a field trip or a college trip, you are required to turn in your work **prior** to the trip *unless* alternate arrangements have been made with me *prior* to your trip.
- If you have an excused absence,
 - the work that was due on the day of your absence is expected the day you return
 - work that is due the day you return is expected the following class period
- Extended excused absences require that *you* generate a conversation with me *outside* of class so that we can work out a plan to get you caught up.
- Tardy is defined as arriving after class has started. After ten minutes, a tardy will be counted as absent.
- Sleeping in class – first offense will result in a warning, the second offense will result in an unexcused absence.
- You are allowed one unexcused absences without penalty provided it was not a quiz or test day.
 - 1st unexcused absence:
 - No penalty for homework – place it in my mailbox the day it is due
 - If you missed a test or quiz you must schedule to take it with me or Mrs. Drumm **ON THE SAME DAY**. If you do not take it on the same day, 20% will be deducted for each day missed.
 - 2nd unexcused absence:
 - You are required to attend office hours in which you will watch the classroom lecture and have an opportunity to ask questions.
 - Homework will not be accepted – you will earn a zero

- If you missed a test or quiz you must schedule to take it with me or Mrs. Drumm ON THE SAME DAY. If you do not take it on the same day, 30% will be deducted for each day beyond.
- Residential: you will be grounded
- NECP's – parents will be notified
- 3rd unexcused absence:
 - You are required to attend office hours in which you will watch the classroom lecture and have an opportunity to ask questions.
 - Homework will not be accepted – you will earn a zero
 - If you missed a test or quiz you must schedule to take it with me or Mrs. Drumm ON THE SAME DAY. If you do not take it on the same day, 40% will be deducted for each day beyond.
 - Residential: you will be grounded
 - NECP's – parents will be notified

Indiana Academy Unexcused Absence Policy

“It is the policy of the Indiana Academy that any absence from class is unexcused, except for illness, death in the family, college or school-related activities, and extenuating circumstances. When a student is absent from a class, the instructor reports the student absence to the Faculty Attendance Coordinator in the Office of Academic Affairs. Unless the absence is excused by a school official, it is considered unexcused. The decision as to whether an absence is excused is **not** determined by the instructor.

Four (4) or more unexcused absences will lead to academic and residential consequences beyond the scope of this class determined by the Office of Academic Affairs (i.e., residential groundings, parent/principal conference, and/or detention).

*You are expected to attend every class.. Each additional unexcused absence will be penalized as follows: Unexcused absence (1) = 1-point subtraction from final grade. Unexcused absence (2) = 3-point subtraction from final grade. Unexcused absence (3) = 5-point subtraction from final grade. (For example, if you have an 89 final average with (3) unexcused absences your final grade will be 84).

**Any minor assignment/test/project/presentation missed due to an unexcused absence will be handled according to the late work policy of this class. You will be given an opportunity to retake any missed assignment/test/project/presentation worth more than 20% of the final grade but will be docked a full letter grade as a result.”

Cell phones/Computers/Tablets/Calculators

- Cells phones are not to be used in class.
 - Emergency calls can be taken in the hallway
 - During an exam, cell phones must be put on silent, airplane mode, or turned off.
- Computers and/or tablets may be used in class for taking notes.
 - If you are using a computer/tablet during class for anything outside of the scheduled activity/lecture, you will lose the privilege to use these devices during class.
- Occasionally you will need your computer for a lab – you will be given notice when you will need a lab for class.
- A TI-84 calculator (or equivalent) will be needed for this class

Laboratory

Many of the labs that you will do in class are inquiry based labs. *Labs make up 20% of your overall grade.* If you miss a lab (and it is an excused absence) then you will be required to make up the lab within six days of the missed

lab; however, the due date will not change. You will not be allowed to simply use the data from your lab partner. Learning laboratory techniques is just as important as learning the concepts behind the labs.

- Lab work cannot not be made up for an unexcused absence; however, you will be permitted to turn in a lab report worth 50%
- Sign and return the lab safety contract.

The prelab is extraordinarily important and you must be prepared to do the lab when you come to class. The prelab is on Canvas and you are expected to work as a group to complete the prelab. Failure to complete the prelab will be an automatic deduction of 50% from your lab assignment.

Exams

There will be five unit exams this semester. They will take approximately 110 minutes to complete encompassing more than one chapter, and each section will be timed. *Every exam is cumulative; however, the majority of the exam will focus on the section just covered.* The first part of your exam will contain multiple choice questions in which you will not be allowed to use a calculator and you may be required to justify the answer. The second portion of your exam will contain free response questions and you will be allowed to use a calculator. *Exams make up 50% of your overall grade.*

BSU Statement

“Ball State University aspires to be a university that attracts and retains a diverse faculty, staff, and student body. We are committed to ensuring that all members of the community are welcome, through valuing the various experiences and worldviews represented at Ball State and among those we serve. We promote a culture of respect and civil discourse as expressed in our Beneficence Pledge and through university resources found at <http://cms.bsu.edu/campuslife/multiculturalcenter>.”

Mask Policy

The Indiana Academy will follow [Ball State University's mask policy](#) (see Section IV). Based on current CDC guidance recommending the wearing of face masks for all people—regardless of vaccination status—in public indoor settings in communities where the rate of coronavirus transmission is high or substantial, all employees, students, and campus visitors are required to wear a mask while inside any University building. This requirement is effective on August 9, 2021. Fully vaccinated people are not required to wear masks outdoors.

Individuals who are not fully vaccinated for COVID-19 are required to wear face masks while inside campus buildings and outside when physical distancing cannot be maintained.

If a student declines to wear a face mask as required, the student will be referred to the Director of Academic Affairs or the Director of Residential Affairs. If the situation occurs in a classroom or other academic setting, it is considered a classroom management issue, and the teacher will remind the student of the requirement and give the student a chance to comply with it prior to referring the matter to the Director of Academic Affairs or the Director of Residential Affairs. Wearing masks is crucial to preventing the spread of COVID-19 to others.

Grade Weights –

Weight	Description
50%	Exams
15%	Laboratory
10%	Quizzes
10%	Homework
15%	Final Exam
100%	Total

Grade Scale

Percentage	Letter Grade
100 – 84	A
<84 – 80	A-
<80 – 75	B
<75 – 70	B-
<70 - 60	C
<60 – 55	C-
<55	D*

Exam Taking Tips

Use the 3-Pass System:

1. Answer the questions that you know. Then...
2. Answer the stuff that you think you know.
Then...
3. Finish what you can

Study Tips

1. Ask questions!
2. Rewrite your class notes with the textbook.
Synthesize the two into one coherent document.
3. Ask questions!
4. Attend the help sessions.
5. Ask questions!
6. Form a study group.
7. Ask questions!

Additional Resources

<http://www.khanacademy.org/science/chemistry>

Video lessons! Everything you need to know about chemistry. If you search, you can find just about any topic including Calculus and History.

<http://misterguch.brinkster.net/helpdesk2.html>

Fairly basic, but the information is very helpful.