

# CHEM 1105: Preparation for Chemistry

Fall 2019 – Section 501 – CRN 65164

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**Office Hours:** Mon 1:00 – 3:00 pm, Wed 2:00 – 4:00 pm,  
Thu 9:00 – 10:00 am, and anytime by appointment

**Meeting Times:** Tuesday & Thursday: 10:30 – 11:45 am, VAAS 127

## COURSE DESCRIPTION

This course is designed to introduce students to the study skills and basic math, science, and chemistry knowledge required to succeed in General Chemistry.

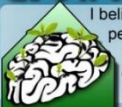

## WHAT YOU'LL LEARN

### COURSE-LEVEL STUDENT LEARNING OUTCOMES

By the end of this course, student will be able to:

1. Apply mathematical knowledge of college algebra, graphing, exponential, and logarithm in chemistry word problems;
2. Handle significant figures for addition, subtraction, multiplication, and division;
3. Carry out simple unit conversions;
4. Use periodic table;
5. Balance simple chemical equations
6. Solve fundamental stoichiometric problems of chemical formula and reactions
7. Do calculations involving moles, molarity, weight percent
8. Understand and explain the relationship between pH and acidity.

**If none of these make any sense to you at the beginning of the semester – No problem!  
We're literally here so you can learn this stuff!**

	<b>Growth Mindset</b>	<b>Fixed Mindset</b>
The following info is adapted from Carol Dweck, World-renowned Stanford University psychologist's theory on changing our mindset.	 I believe that my character, personality and intelligence can be developed. My true potential is unknown.	 I believe that my character, personality, potential and intelligence are carved in stone and determined at birth.
<b>Desire</b>	to push myself, take risks and constantly learn new things. I enjoy a challenge.	to look smart in every situation and to prove myself again and again. I must never fail.
<b>Evaluation of situations</b>	"Will it allow me to grow?" "Will it help me to overcome challenges?"	"Will I succeed at it or fail?" "Will it make me look intelligent or stupid?"
<b>Attitude to setbacks</b>	"I failed. I'll learn from it and move on." "I'll try harder next time."	"I'm a failure." "I knew I'd fail, I'm an idiot."
<b>Attitude to challenges</b>	I embrace challenges and persist when things get tough.	I avoid challenges. I get defensive and give up easily.
<b>Effort</b>	I believe that personal growth and learning require effort.	Why bother with effort? It's not going to change a thing.
<b>Criticism</b>	I try to learn from criticism. "What can I do to improve?"	I ignore criticism. I do things my way.
<b>The success of others</b>	I find lessons and inspiration in other people's successes.	I feel threatened by the successes of others. If they succeed, I fail.
<b>Result...</b>	They achieve ever-higher levels of success.	They plateau early, and never reach their full potential.

## WHEN WE LEARN THIS STUFF?

(Schedule is approximate and subject to change by the instructor)

Mtg	Date	Topics	Class Activities*	References
1	Tue 20 Aug	Course overview Study plan Scientific Notation Multiply/divide sci. not. Significant Figures	Simplify equations Calculator check Simple calculations	Class Notes Text Appendix B
2	Thu 22 Aug	Significant figures SI system & Unit Prefixes Unit conversions	Syllabus/BPR Quiz Unit Conversions SI system	Text 1.4 - 1.6
3	Tue 27 Aug			
4	Thu 29 Aug			
5	Tue 3 Sep			
6	Thu 5 Sep			
7	Tue 10 Sep			
8	Thu 12 Sep			
9	Tue 17 Sep			
10	Thu 19 Sep			
11	Tue 24 Sep			
12	Thu 26 Sep			
13	Tue 1 Oct			
14	Thu 3 Oct	Catch up/review		
15	Tue 8 Oct	Final Exam	Ace the Final!	

\*Subject to change

## WHAT YOU'LL ABSOLUTELY NEED

(REQUIRED COURSE MATERIALS)

- **A positive attitude and a desire to learn!**
- **Access to UNM Learn and UNM email:** Materials will be posted on UNM Learn and important class announcements will be made to your UNM email address. Please check your email regularly. Valencia campus provides internet and computer access at the library, Learning Resource Center, and STEM center.
- **A NON-PROGRAMMABLE scientific calculator** with log/antilog and exponential functions: TI-30Xa TI-30X IIS TI-30XS Casio or Sharp equivalents (**cell phones and graphing calculators are not acceptable**). Visit <http://www.vrcworks.net/blog/how-to-identify-calculator-is-programmable-or-nonprogrammable-calculator/> will help you tell the difference, or ask your instructor.
- **OpenStax Chemistry, 1<sup>st</sup> or 2<sup>nd</sup> edition** (course text)
- **A binder and/notebook**
  - keep and organize notes
  - keep and organize assignments

## WHAT WE'RE GONNA DO TOGETHER

(CLASS ACTIVITIES)

- **Bullet Point Review (BPR) Notes:** Every class period has a required PRE-reading assignment and quiz. The reading sections can be found in the syllabus. BPR notes should be taken on the reading section 1-5 days before class. Guidance for BPR notes will be discussed on the first day of class.
- **In-Class Worksheets/Activities** – Any worksheets or activities not completed during class time will be due by the beginning of the following class. No assignments will be taken after 9 am of the following class day.
- **Final Exam:** The final exam will be taken during the last class session (Tuesday, 11 October 2018) The format of the exam is TBD.

## WHAT YOU NEED TO DO TO DO WHAT WE'RE GONNA DO WELL

(COURSE REQUIREMENTS AND GOOD STUDY HABITS)

- **Attend Class:** you may not miss more than 2 class sessions (there are only 15 meetings!)
- **Attend Tutoring:** attend at least 8 tutoring sessions of >15 min each
- **Bring a Calculator:** have log/antilog and exponential functions
- **Have Internet Access:** Blackboard Learn access and a UNM email address are required and should be checked daily for course updates.
- **Keep a Notebook:** spiral bound or binder with loose-leaf paper inserted for taking and organizing notes
- **Be positive:** You got this!

## HOW WILL YOU KNOW HOW YOU'RE DOING?

(GRADES)

Bullet Point Review Quizzes	30%
In-class Problems and Activities	40%
Final Exam	30%

**75% of the total points must be earned to receive credit for CHEM 115**

## NOT CHEMISTRY, STILL IMPORTANT STUFF

(CAMPUS POLICIES)

Important Dates & Holidays	
Fri 23 Aug 2019	Last day to register, ADD sections, and change credit hours Last Day to CHANGE grade option
Fri 30 Aug 2019	Enrollment cancellation for non-payment Last Day to DROP without "W" grade and 100% tuition refund on LoboWEB
Mon 02 Sep 2019	University Holiday - Labor Day
Fri 27 Sep 2019	Last Day to withdraw <b>WITHOUT</b> Dean's Permission
Tue 08 Oct 2019	Final Exam (for this section)
Thu 10 Oct 2019	University Holiday - Fall Break
Fri 11 Oct 2019	,Last Day to withdraw <b>WITH</b> Dean's Permission

## Other Things That Aren't Chemistry, But Are Still Important (University Policies)

### Equal Access Services

If you have a documented disability or psychological/medical condition that may affect your performance in this class, please register with Equal Access Services as soon as possible so I can provide your accommodations in a timely manner. EAS can provide a quiet place to take exams, additional time, and additional services if there is a documented need. For more information, please see their website at



Equal Access Services

<https://valencia.unm.edu/students/advisement-and-counseling/equal-access-services.html>, or scan the QR code at right:

### Academic Integrity

Having academic integrity is paramount to your success in any class. Plagiarism or cheating is not tolerated. Any instance of this will result in a grade of zero for that assignment. Here is the link to the UNM Academic Dishonesty Policy:

<https://policy.unm.edu/regents-policies/section-4/4-8.html>.

or scan the QR code at right:



Academic Integrity Policy

The policy states:

*Each student is expected "to maintain the highest standards of honesty and integrity in academic and professional matters. The University reserves the right to take disciplinary action, up to and including dismissal, against any student who is found guilty of academic dishonesty or who otherwise fails to meet the expected standards. Any student judged to have engaged in academic dishonesty in course work may receive a reduced or failing grade for the work in question and/or for the course.*

Academic Dishonesty is defined as:

"Academic dishonesty" includes, but is not limited to, dishonesty in quizzes, tests, or assignments; claiming credit for work not done or done by others; hindering the academic work of other students; misrepresenting academic or professional qualifications within or without the University; and nondisclosure or misrepresentation in filling out applications or other University records.

### Sexual Misconduct and Gender Discrimination

In an effort to meet obligations under Title IX, UNM faculty, teaching assistants, and graduate assistants are considered "responsible employees." by the Department of Education (see page 15 -

<http://www2.ed.gov/about/offices/list/ocr/docs/qa-201404-title-ix.pdf>). This designation

requires that any report made to a faculty member, TA, or GA regarding sexual misconduct or gender discrimination must be reported to the Office of Equal Opportunity and the Title IX Coordinator. For more information on this policy, <https://policy.unm.edu/university-policies/2000/2740.html> or scan the QR Code at right:



Title IX Policy