



Navajo Technical University

<http://navajotech.edu>

P.O. Box 849, Crownpoint, NM 87313-0849

Tel: (505) 786-4100

FAX: (505) 786-5644

Course Title: CHEM 1120C College Algebra with Lab

Credit Hours: 4
Semester: Spring 2022
Cap: 10

Faculty: Michael Williams

E-mail: mwilliams@navajotech.edu

Office: None

Office Phone: None

Office Hours: None. I will maintain high availability through email.

Preferred Communication: mwilliams@navajotech.edu

Class Location: ZHS Lab

Class Meeting Times: Saturday 1:00 pm – 4:30 pm

Required Materials: We will use the Cengage online platform called OWL v2.

Most of the teachers at NTU are using an online platform from the publishing house named Cengage. Cengage's chemistry online platform is called OWL v2. OWL v2 is an acronym for **O**nline **W**eb-based **L**earning **v**ersion **2**.

We will need an access code to Cengage OWL v2 and MindTap platforms using *Introduction to General, Organic, and Biochemistry* 11th Edition, Bettelheim, Brown, Campbell, Farrell, Torres.

We will also need a scientific calculator. Scientific calculators are inexpensive calculators with advanced functions, beyond the four arithmetic functions, which include log, exponent, trigonometric, and scientific notation entry.

Because most teachers are using Cengage, that means students can pay \$120 one time each semester for Cengage Unlimited and have access to all their course materials for all their classes that semester. It is a good deal.

Here is what you need to do: <https://www.cengage.com/student/>

Purchase a 4-month license for Cengage Unlimited, if you have not already done so for another class. The NTU bookstore probably has licenses for sale, too, if you want to charge against your financial aid disbursement. After you get dialed in to Cengage Unlimited, then there will come a point where you need to input our Course Key to connect with our class.

Our Course Key is: E-KY65Y5XHZRZJX

You can also connect with our class using this link:

<https://www.cengage.com/dashboard/#/course-confirmation/E-KY65Y5XHZRZJX/initial-course-confirmation>

Notice that our Course Key is embedded within this link.

How Our Class Works: We will meet for 3.5 hours every Saturday to talk about concepts, look at problems, think about problems, talk about them, and work through them. My goal is to help you get prepared for your next Chemistry class or for your entrance to a Nursing Program.

There are no exams. There is only the work we do on our OWL v2 assignments. When you look at our assignments, then you may notice there is an awful lot of work. I assign more work than I know anyone can do. I do not expect you to do everything. I also do not expect you to get the right answer all the time. That is not what is important to me. The reason I assign a lot of problems is because I want you to develop vision and recognition of *problem types*. There is an infinite number of possible problems, but there are only a few different problem types. Recognizing problem types is what is important to me. We will talk more about this in class.

University Mission Statement

Navajo Technical University's mission is to provide University readiness programs, certificates, associate, baccalaureate, and graduate degrees. Students, faculty, and staff will provide value to the Diné community through research, community engagement, service learning, and activities designed to foster cultural and environmental preservation and sustainable economic development. The University is committed to a high quality, student-oriented, hands-on learning environment based on the Diné cultural principles: *Nitsáhákees, Nahat'á, Iná, Sii Hasin*.

Course Description

This course covers qualitative and quantitative areas of non-organic general chemistry for non-science majors and some health professions. Students will learn and apply principles pertaining, but not limited to, atomic and molecular structure, the periodic table, acids and bases, mass relationships, and solutions.

Course Outcomes	Course Assessments
Preparation for General Chemistry or application to Nursing Programs	Assigned problems in Cengage OWL v2

Course Activities

We will cover Chapters 1, 2, 3, 4, 5, 6, 7, 8.

There are three Cengage OWL v2 assignments per chapter.

The three assignments are: Multimedia Activities, Mastery, and EOC.

Cengage OWL v2 assignments are 100 % of the total grade.

All assignments will open Sunday, January 16, 2022, at 12:00 am and close Sunday, May 8, 2022, at 11:55 pm.

Our class is a lot of work, so frequent and regular contact with the material is the key to your success.

When you are in trouble on a problem in OWL v2, then use the Email Instructor button that is onscreen with nearly every question in your OWL v2 assignments. That will send me a direct link to the exact question you are working on with your values and variables.

When you use the Email Instructor button, then I may reply to you in a one of several ways.

I may direct you to a worked OWL v2 example on Blackboard. I post many worked OWL v2 problem examples to Blackboard for you to use as a template for solving your particular problem. All you need to do is substitute your values and variables into my worked example.

I may consider your question to be something the whole class might benefit from, and then I would make a Screencastify video and convert it to a YouTube video for everyone.

I may direct you to a page in the textbook for reference.

I may ask you a question back.

Sometimes a simple question needs a simple answer so you can get unstuck and keep moving forward.

I understand that. I will always try to be sensitive to the amount of time you have to work on our class.

I am here to help you through this.

Grading Plan

Assignments: 100 %

Grades fall along the usual percentage lines, but I do a fair amount of curving to bring the lower end of the class up.

Note: This marks the end of the syllabus that I am actively writing or editing. From here until the end is information that may or may not pertain to our class and is included boilerplate from A:shiwi College and Navajo Technical University.

Grading Policy

Each student must do his or her own homework and case studies. Discussion among students on homework and cases is encouraged for clarification of assignments, technical details of using software, and structuring major steps of solutions - especially on the course's Web site. Students must do their own work on the homework and exam. Cheating and plagiarism are strictly forbidden. Cheating includes but is not limited to plagiarism, submission of work that is not the student's own, submission or use of falsified data, unauthorized access to exam or assignment, use of unauthorized material during an exam, supplying or communicating unauthorized information for an assignment or exam.

Study Time Outside of Class for Face-to-Face Courses

For every credit hour spent in class, a student is expected to spend two hours outside of class studying the course materials.

Study Time for Hybrid or Blended Courses

For a hybrid or blended course of one credit hour, a student is expected to spend three hours per week studying the course materials.

Study Time for Online Courses

For an online course of one credit hour, a student is expected to spend four hours per week studying the course materials.

Academic Integrity

Integrity (honesty) is expected of every student in all academic work. The guiding principle of academic integrity is that a student's submitted work must be the student's own. Students who engage in academic dishonesty diminish their education and bring discredit to the University community. Avoid situations likely to compromise academic integrity such as: cheating, facilitating academic dishonesty, and plagiarism; modifying academic work to obtain additional credit in the same class unless approved in advance by the instructor, failure to observe rules of academic integrity established by the instructor. The use of another person's ideas or work claimed as your own without acknowledging the original source is known as plagiarism and is prohibited.

Diné Philosophy of Education

The Diné Philosophy of Education is incorporated into every class for students to become aware of and to understand the significance of the four Diné philosophical elements, including its affiliation with the four directions, four sacred mountains, the four set of thought processes and so

forth: Nitsáhákees, Nahat’á, Iiná and Sih Hasin which are essential and relevant to self-identity, respect and wisdom to achieve career goals successfully.

A:shiwí Philosophy of Education

Yam de bena: dap haydoshna: akkya hon detsemak a:wannikwa da: hon de:tsemak a:ts’umme. Our language and ceremonies allow our people to maintain strength and knowledge. The A:shiwí Philosophy of Education will be the essential elements of preparing students to develop indigenous and western teachings. The A:shiwí core values of hon i:yyułashik’yanna:wa (respect), hon delank’oha:willa:wa (kindness and empathy), hon i:yyayumola:wa (honesty and trustworthiness), and hon kohoł lewuna:wediyahnan, wan hon kela i:tsemanna (think critically). These indigenous ways of knowing will allow learners to develop positive self-identity, respect, kindness, and critical thinking skills to achieve life goals successfully.

Students with Disabilities

The Navajo Technical University and the A:shiwí College and Career Readiness Center are committed to serving all enrolled students in a non-discriminatory and accommodating manner. Any student who feels he/she may need an accommodation based on the impact of disability or needs special accommodations should inform NTU in accordance with the procedures of the subsection entitled “Students with Disabilities” under Section 7: Student Support Programs, NTU Student Handbook.