

Introductory Chemistry 115 Syllabus Spring

Course prefix/number/title: Chem. 115, Introductory Chemistry

Number of credits: 4

Course Description: The goal of Introductory Chemistry is to provide students with a foundation in chemical concepts and principles. The class consists of three one hour lectures and one two hour lab period. The class is designed for non-science orientated majors.

Pre-/Co-requisites: none

Course Objectives: Introductory Chemistry is designed to provide a firm foundation in chemical concepts and principles so students will develop and appreciation of the vital role that chemistry plays in their everyday lives.

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Office Hours: MWF 10:00-11:00am

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Lecture/Lab Schedule: lecture 8:00-8:050 am, MWF, NSC 125 Lab T 2:00-3:50pm, NSC 121

Text: Introductory Chemistry, by Zumdahl, 6th edition.

Course Requirements:

Grading: Grades will be based on total points using the following percentage system: 100-90, A; 89-80, B; 79-70, C; 69-60, D; <60, F. Exams, quizzes, and lab reports will be used to determine the final grade. **IMPORTANT!** Any grievances concerning graded material must be addressed within one week from the time the material is returned to the student.

Exams (5)	500pts
Lab Reports (25 pts. Each)	300pts
Final Lab	100pts
Quizzes (10pts. Each)	<u>100pts</u>
	1000pts

Exams: There will be five exams during the course of the semester. Periodic tables may be used on the exams and will be provided by the instructor. **There will be no makeup exams unless prior arrangements have been made. If you need to be gone for a school related activity or family event, you will be expected make arrangement prior to the event and take the exam before you leave.**

Homework: Homework will be assigned throughout the semester and will be discussed in class. Homework is designed to prepare you for exams and quizzes. You will be able to use homework on quizzes. If you do not understand something in the readings, it is your responsibility to ask questions or set up a tutoring time with the instructor.

Laboratory: The laboratory portion of the course provides an opportunity to integrate lecture concepts with observable activities. **Chemical splash safety goggles** and aprons are required and may be purchased at the bookstore. Attendance at lab is mandatory. To obtain credit, you must be actively involved in the laboratory activities. Late lab reports will be worth 50%.

Early Warn Attendance Policy will be followed!

<u>Lecture</u>	<u>Chapter and Reading Assignment</u>	<u>Lab Topic</u>
Week 1	Ch. 1-2, Pages 1-18 Ch. 2, Pages 18-33	
	Jan. 20 No Class Martin Luther King Day	
Week 2	Ch. 2-3, Pages 33-66 Ch. 3, wrap-up and review	measurement, accuracy, density
Week 3	<u>Chapter #1-3 Exam</u> Ch. 4, p. 72-88	percent composition
Week 4	Ch. 4, pages 89-104 Ch. 5, Pages 112-126	
Week 5	Ch. 5&6, Pages 126-149 Ch. 6&7, Pages 149-175 Ch. 7, Pages 175-191 Ch. 4-7 wrap up and review	physical & chemical change empirical formulas
	<u>Ch. 4-7 Exam</u> Feb. 17 Presidents Day No Class	
Week 6	Ch. 8, Pages 203-218 Ch. 8, Pages 218-229	chemical reactions
Week 7	Ch. 9, Pages 239-251 Ch. 9, Pages 251-259	relating moles to coefficients of a chemical equation
Week 8	Ch. 8-9 wrap-up and review	mole & mass relationships
	<u>Ch. 8-9 Exam</u> Spring Break March 16-22 No Class	
Week 9	Ch. 10, Pages 271-286 Ch. 10, Pages 287-297	calorimetry
Week 10	Ch. 11, Pages 303-316 Ch. 11, Pages 317-332 Ch. 12, Pages 341-356	Flame tests
Week 11	Ch. 12, Pages 356-373	Forensics
	<u>Ch. 10-12 Exam</u>	
Week 12	Ch. 14, Pages 427-444 Ch. 15, Pages 451-462	molecular geometry and valence electrons
	Easter Break April 10-April 13- No Class	
Week 13	Ch. 15, Pages 462-473	
	<u>Ch. 13-15 Exam</u>	
Week 14	Ch. 16, Pages 487-507 Ch. 17, Pages 515-526 Ch. 17, Pages 526-541	properties of acids & Bases
Week 15	Ch. 18, Pages 553-566 Ch. 18, Pages 566-575	
Week 16	<u>Final Exam Review</u>	
May 11	<u>Final Exam- 3-5pm</u>	

General Education Goals/Objectives: This course meets General Education Goal 1: Explains the interrelationships between chemistry and their environment and the role of science in their lives. Specific objectives include:

LO #1 Demonstrates the application of the scientific method of inquiry, associated technology and critical thinking/analysis skills.

Relationship to Campus Theme: This course addresses the campus theme by incorporating the role that chemistry plays in our everyday life and the impact it has on our natural world. In addition students will

use technology to conduct labs as well as study how technology can be used in chemistry. The course will address the role of chemistry in their everyday life as well as in their future.

Classroom Policies:

Make-up: Make-up for missed exams unless prior arrangements have been made. If you must be absent for a school related or family event, you are expected to make prior arrangements and take the exam prior to the event. .

Cell phone and related technology use are prohibited in the classroom at all times. It is recommended that you do not bring your cell phone into the classroom or at least, turn it off.

Be respectful of other students, technicians, instructors, and guests.

Student Email Policy: Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the Campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.

Academic Integrity: According to the DCB Student Handbook, students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles, and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred. The Code detailed in the Academic Honesty/Dishonesty section of the Student Handbook will serve as the guideline for cases where cheating, plagiarism or other academic improprieties have occurred.

Disabilities or Special Needs: Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services within the first two weeks of the semester to line up accommodations.

Title IX: Dakota College at Bottineau (DCB) faculty are committed to helping create a safe learning environment for all students and for the College as a whole. Please be aware that all DCB employees (other than those designated as confidential resources such as advocates, counselors, clergy and healthcare providers) are required to report information about such discrimination and harassment to the College Title IX Coordinator. This means that if a student tells a faculty member about a situation of sexual harassment or sexual violence, or other related misconduct, the faculty member must share that information with the College's Title IX Coordinator. Students wishing to speak to a confidential employee who does not have this reporting responsibility can find a list of resources on the DCB Title IX Webpage.

FINAL EXAM SCHEDULE SPRING 2020

NOTE:

1. The final exam schedule is based on class lecture periods.
2. Instructors are required to meet and administer final exams in their regular scheduled classrooms.
3. Final exams are to be given on the last class period prior to the first day of finals or at a time arranged by the instructor for the following: All one and two credit classes; IVN classes; and classes starting after 4:00pm.
4. For all classes listed in the spring schedule as "TBA," finals will be given during the last regularly scheduled class period of the semester or at a time determined by the instructor during finals week that does not conflict with other final exams.
5. For classes not listed on the final exam schedule, finals will be given during finals week during a time arranged by the instructor that does not conflict with other final exams.

If you class			Your Final exam is scheduled for:
Regularly meets at:	9:00-9:50	M, W, F	Monday, May 11 9:00-11:00 a.m.
	9:00-9:50	M, Tu, W, F	
	9:00-9:50	M, Tu, W, Th	
	9:30-10:45	Tu, Th	Monday, May 11 12:00-1:00 p.m.
	10:00-10:50	Tu, Th	
	1:00-2:15	Tu, Th	Monday, May 11 3:00-5:00 p.m.
	2:00-3:15	Tu, Th	
	2:00-4:50	Tu, Th	
	10:00-10:50	M, W, F	Tuesday, May 12 9:00-11:00 a.m.
	10:00-10:50	M, Tu, W, F	
	10:00-10:50	M, W	
	11:00-12:15	Tu, Th	Tuesday, May 12 12:00 – 2:00 p.m.
	2:00-2:50	M, W, F	Tuesday, May 12 3:00-5:00 p.m.
	2:00-2:50	M, Tu, W, F	
	2:20-3:10	M, W, F	
	8:00-9:15	Tu, Th	Wednesday, May 13
	11:00-11:50	M, W, F	Wednesday, May 13 12:00-2:00 p.m.
	11:00-11:50	M, Tu, W, F	
	1:00-1:50	M, W, F	Wednesday, May 13 3:00-5:00 p.m.
	1:00-1:50	M, Tu, W, F	
	8:00-8:50	M, W, F	Thursday, May 14 9:00-11:00 a.m.
	8:00-8:50	M, W	
	12:30-1:45	Tu, Th	Thursday, May 14 12:00-2:00 p.m.
	1:00-1:50	Tu, Th	

3:00–5:00 PM on Thursday, May 14th and 8:00–10:00 AM on Friday, May 15th = Makeup exams by arrangement with the instructor