

SYLLABUS

Fall 2015

CHE 201 Sections 01-02-03-04-05

DR. T.W. McCREARY JDJH 1242 & 1239 809-6499

OFFICE HOURS: 12:30-2pm M-Th

Other times by appointment

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When emailing please include "CHE 201" in the SUBJECT or your email may be rejected as spam.

Let's start with The Fine Print:

- A syllabus is a legal contract between you and the instructor. It is to your advantage to be familiar with it.
- A \$25 checkout fee will be assessed if you check into lab and do not check out. (Once you have checked in, you must go through the check-out process, even if you drop the course.)
- If you are planning to take CHE 202, note that the CHE 202 final is comprehensive over both CHE 201 and 202.
- A student found in **POSSESSION** of a wireless communication device or a device for playing audio recordings (including but not limited to: **TELEPHONE**, computer, tablet, MP3 player) during an examination shall be deemed to be engaged in **ACADEMIC DISHONESTY**. (Penalties in Section X).

I. **Course Title:** General College Chemistry

II. **Course Description:** A thorough course in inorganic chemistry emphasizing atomic structure, stoichiometry, periodic classification, chemical bonding, states of matter, and nuclear chemistry. Five credit hours.

Prerequisites:

(Prerequisite #1) Satisfactory completion of either (a) a year of high school chemistry with laboratory, or (b) CHE 105, AND

(Prerequisite #2) (a) MATH ACT of 23 or higher, or (b) satisfactory completion of MAT 150 or 140.

III. **Course Objective:** The student is to attain a level of understanding of basic chemistry such that the content of subsequent chemistry courses can be satisfactorily understood and mastered.

IV. Content Outline: (**dates are approximate)

Chapter 1	Matter, Measurement, Problem Solving
2	Atoms and Elements
3	Molecules, Compounds, Equations
First Exam, Chapters 1, 2, 3 (8 Sept**, 150 pts)	
4	Chemical Quantities, Aqueous Reactions
5	Gases
6	Thermochemistry
Second Exam, Chapters 4, 5, 6 (13 Oct**, 190 pts)	
7	Quantum-Mechanical Model of the Atom
8	Periodic Properties of the Elements
Third Exam, Chapters 7 and 8 (10 Nov**, 110 pts)	
9	Chemical Bonding I
10	Chemical Bonding II
Fourth Exam, Chapters 9, 10 (1 Dec**, 150 pts)	
Final Examination (200 pts)	

V. Instructional Activities

	Sections 1,2,3	Sections 4,5
Lecture MWF	8:30-9:20	10:30-11:20
Recitation Tu	7:30-9:20	9:30-11:20
Laboratory Th	7:30-9:20	9:30-11:20

Reading and Homework: Daily, each student shall do all of the following:

- (1) Read (*for comprehension*) the material covered that day in lecture/recitation, in the textbook.
- (2) Know which sections (of a chapter) were covered that day.
- (3) From those sections,
 - a. review all the worked examples.
 - b. work all practice problems that accompany those worked examples.
 - c. work any additional assigned homework (end of chapter or handouts).

VI. **Field, Clinical, and Laboratory Experiences:** See the laboratory schedule. Prior to each laboratory activity, each student shall read the experiment (techniques, introduction, procedure, and calculations) and be prepared for a pre-lab quiz. Each student shall attend a Safety Presentation before checking in to laboratory.

VII. **Text and Resources:** The following are required:

- (1) Text: *Chemistry: A Molecular Approach, 3rd edition*, Nivaldo Tro (Pearson 2014). Available bound, looseleaf, and as an e-book.
- (2) A NEW lab manual (*Techniques and Experiments in General Chemistry*, R. Allenbaugh, 2012)
- (3) One of the following one-line scientific calculators:
 - a. TI-30Xa (recommended) solar or regular
 - b. TI-36X (solar or regular but not Pro)
 - c. Casio FX-260
 - d. P-Tech DG560

NO OTHER CALCULATOR is permitted for examinations and for extra-credit quizzes. Calculators shall not be shared.

- (4) Approved eye protection: **Chemical splash** goggles are available at the University Bookstore and also will be available for purchase at Check-in. Goggles may be rented at the stockroom but are *not* always available.
- (5) A pencil. A multiple-choice answer that has been marked using ink may not be changed once marked.
- (6) **CANVAS.** Syllabus, chapter PowerPoint presentations, exam review sheets, practice exams, keys to those exams, and other material and announcements will be

posted on CANVAS. Access to CANVAS is the student's responsibility. Access (electronic or paper) to PowerPoint presentations during lecture is recommended.

The approved calculator shall be brought to each lecture and recitation; the textbook is recommended.

Laboratory manual and eye protection shall be brought to each laboratory session.

- VIII. **Grading Procedures:** Tentatively, grades will be based on 1000 possible points for the semester. To find your grade, simply divide the points you have earned by the possible points at that time, and multiply by 1000.

Four Regular Examinations (total)	600 pts
Final Examination (comprehensive, standardized, multiple choice, timed)	200
Top ten laboratory reports, 15 pts each	150
Five prelab quizzes, 10 pts each	50

A = 900+ B = 800+ C = 700+ D = 600+

Final grades will not be "curved" or rounded off; the grade awarded is the precise grade earned. (for example, 899.9 pts = B; 900.0 pts = A)

- IX. **Attendance Policy:** Students are expected to adhere to the MSU Attendance Policy outlined in the current MSU Bulletin. Formal attendance records will not be kept except for lab, quizzes, and examinations. However, the student is responsible for *all* material covered, assignments made or to be turned in, announcements, etc. during any class/lab time. An excused absence does *not* excuse this responsibility. There is an extremely strong correlation between less-than-stellar attendance and unsatisfactory performance in CHE 201/202.

Makeup examinations require an official (written) excuse. Makeup exams are largely or entirely oral in nature. The depth and breadth of the content of a makeup exam will be greater than that of the original examination.

No makeup laboratory experiments/activities are provided for any reason, excused or otherwise. The top ten laboratory reports and the five prelab quizzes will determine the laboratory grade. Missed lab days and late reports are assigned a grade of zero. More than three grades of zero on experiment/activity reports [regardless of the reason(s) or excuses] shall result in a grade of zero for laboratory due to insufficient (<70%) participation.

Extra credit quizzes

Extra credit quizzes are unannounced and usually will be based on recently-covered lecture material. They may be given during lecture OR recitation. Each such quiz will be worth 10 points, with a total of 40 quiz points

possible for the semester. The points will be added to the semester points (see VIII). There are no makeup extra-credit quizzes regardless of the reason or excuse. [e.g., if you are sick on the day of an EC quiz, or you arrive late to class and miss one, it is gone.]

Audit: To change from Credit to Audit you must:

- Present the completed Drop/Add/Audit form for my signature NOT LATER THAN THE MONDAY FOLLOWING THE SECOND REGULAR EXAMINATION. After that date you no longer have the option to change from credit to audit in this class.
- Check out of laboratory on or before the Thursday following signature of the Drop/Add/Audit form.

X. **Academic Honesty Policy:** Murray State University takes seriously its moral and educational obligation to maintain high standards of academic honesty and ethical behavior. Instructors are expected to evaluate students' academic achievements accurately, as well as ascertain that work submitted by students is authentic and the result of their own efforts, and consistent with established academic standards. Students are obligated to respect and abide by the basic standards of personal and professional integrity.

Violations of Academic Honesty include:

Cheating - Intentionally using or attempting to use unauthorized information such as books, notes, study aids, or other electronic, online, or digital devices in any academic exercise; as well as unauthorized communication of information by any means to or from others during any academic exercise.

Fabrication and Falsification - Intentional alteration or invention of any information or citation in an academic exercise. Falsification involves changing information whereas fabrication involves inventing or counterfeiting information.

Multiple Submission - The submission of substantial portions of the same academic work, including oral reports, for credit more than once without authorization from the instructor.

Plagiarism - Intentionally or knowingly representing the words, ideas, creative work, or data of someone else as one's own in any academic exercise, without due and proper acknowledgement.

Instructors should outline their expectations that may go beyond the scope of this policy at the beginning of each course and identify such expectations and restrictions in the course syllabus. When an instructor receives evidence, either directly or indirectly, of academic dishonesty, he or she should investigate the instance. The faculty member should then take appropriate disciplinary action.

Disciplinary action may include, but is not limited to, the following:

- 1) Requiring the student(s) to repeat the exercise or do additional related exercise(s).
 - 2) Lowering the grade or failing the student(s) on the particular exercise(s) involved.
 - 3) Lowering the grade or failing the student(s) in the course.
- If the disciplinary action results in the awarding of a grade of E in the course, the student(s) may not drop the course.**

Faculty reserve the right to invalidate any exercise or other evaluative measures if substantial evidence exists that the integrity of the exercise has been compromised. Faculty also reserve the right to document in the course syllabi further academic honesty policy elements related to the individual disciplines.

A student may appeal the decision of the faculty member with the department chair in writing within five working days. Note: If, at any point in this process, the student alleges that actions have taken place that may be in violation of the Murray State University Non-Discrimination Statement, this process must be suspended and the matter be directed to the Office of Equal Opportunity. Any appeal will be forwarded to the appropriate university committee as determined by the Provost.

Penalties for academic dishonesty in CHE 201-01-02-03-04-05 shall include but shall *not be limited to*:

- (i) a zero on the assignment in question AND
- (ii) a minimum of 100 points deducted from the final grade, AND
- (iii) deletion of all extra-credit points (completed or pending).

Penalties apply to all those involved: Recipient(s) AND donor(s) of the relevant information.

Expectations: All work on examinations, quizzes, and laboratory activities in CHE 201 shall be *individual* not collective, except as otherwise specified in writing or on CANVAS. **THERE IS A HUGE DIFFERENCE BETWEEN HELPING ANOTHER STUDENT ON A LAB REPORT AND SIMPLY TELLING THEM HOW TO ANSWER A QUESTION OR DO A CALCULATION.** (You can always come to the instructor for help...)

XI. Non-Discrimination Policy and Students with Disabilities

Policy Statement

Murray State University endorses the intent of all federal and state laws created to prohibit discrimination. Murray State University does not discriminate on the basis of race, color, national origin, gender, sexual orientation, religion, age, veteran status, or disability in employment, admissions, or the provision of services and provides, upon request, reasonable accommodation including auxiliary aids and services necessary to afford individuals with disabilities equal access to participate in all programs and activities. For more information, contact the Executive Director of Institutional Diversity, Equity and Access, 103 Wells Hall, (270) 809-3155 (voice), (270) 809-3361 (TDD).

Students with Disabilities

Students requiring special assistance due to a disability should visit the Office of Student Disability Services immediately for assistance with accommodations. For more information, students should contact the Office of Student Disability Services, 423 Wells Hall, Murray, KY 42071. 270-809-2018 (voice) 270-809-5889(TDD).

SOME IMPORTANT DATES, FALL 2015

Mon 24 Aug	Last day to enroll in CHE 201
Mon 7 Sep	Labor Day, university closed
Th-F 1-2 Oct	Fall break
Fri 9 Oct	Deadline for instructors to post midterm grades
Thur 12 Nov	Last day to drop
25-29 Nov	Thanksgiving break
Thur 3 Dec	Last day to request makeup exams for this course
Sat 5 Dec	Makeup exams begin at 9AM
Mon 7 Dec	Final exam FOR SECTIONS 1, 2, AND 3, at 8:00 AM
Thur 10 Dec	Final exam FOR SECTIONS 4 AND 5, at 10:30 AM