

Survey of Chemistry, CHM 1115, TV Course

Troy University, Montgomery

Instructor: TBD

Course Description: The course will provide an overview of some of the basic concepts and principles of chemistry. Starting with the structure of the atom, the course will proceed on to basic chemical reactions, the formation of ions, states of matter, chemical equilibrium, and chemical bonding, and will incorporate examples from the biological sciences. Corequisite: CHM L115.

Textook: *Chemistry, An Introduction to General, Organic and Biological Chemistry*, 9th Edition, by Karen C. Timberlake

This TV course meets five times during the semester. Outside of class meetings, students are expected to complete 26 assignments. Each assignment requires reading an assignment from the course textbook, watching a video that discusses the reading assignment, and writing a summary of the assignment. In addition, a topic paper is required.

Class Meetings: The class meets 5:30 PM-7:30 PM on Fridays (see dates below) in room 525, Whitley Hall

Due to the limited number of meeting times, it is extremely important that students attend the scheduled meetings. If for some reason you cannot attend a scheduled meeting contact the instructor prior to the meeting time so that other arrangements can be made. Two or more absences will result in the filing of a Excessive Absence Form with the Student Affairs Office.

Survey of Chemistry TV Course Schedule

<u>Date</u>	<u>Topic</u>
1/11	TV Course Orientation / Review of Basic Chemistry Concepts
2/29	Review Session for Mid-Term Exam
3/7	Mid-Term Exam over Units 1-12. Lesson summaries due for Units 1-8.
4/25	Review Session for Final Exam. Lesson summaries due for Units 9-16; deadline for topic papers.
5/2	Comprehensive Final Exam over Units 1-26. Lesson summaries due for Units 17-26.

Grading:

Midterm Exam	40%
Final Exam (comprehensive)	45%
Topic Paper	10%
Summaries of Lessons	5%

Course Grading Scale: 100-90	A
89-80	B
79-70	C
69-60	D
<60	F

General Comments: Students are strongly encouraged to contact me with any questions and problems as they arise and to make every effort to keep pace with the course. Students are

encouraged, but are not required, to bring a self-addressed stamped envelope on test dates.

Reading Assignments: It is vital that students carefully read the assigned sections from the course textbook. In most cases several readings of the assigned sections will be required. Students will be tested on material from both the TV programs and the assigned reading material.

Reading Assignments from
Chemistry, An Introduction to General, Organic and Biological Chemistry

Unit 1 Chapter 2:	Sections 2.1, 2.2
Unit 2 Chapter 2:	Sections 2.5, 2.6
Unit 3 Chapter 3:	Sections 3.1, 3.2
Unit 4 Chapter 3:	Sections 3.3, 3.4, 3.5
Unit 5 Chapter 3	Sections 3.6, 3.7, 3.8
Unit 6 Chapter 3:	Sections 3.7, 3.8
Unit 7 Chapter 4:	Section 4.1
Unit 8 Chapter 4:	Sections 4.2, 4.4
Unit 9 Chapter 4:	Section 4.5
Unit 10 Chapter 4:	Section 4.6
Unit 11 Chapter 5:	Sections 5.1, 5.2
Unit 12 Chapter 5:	Sections 5.4, 5.5
Unit 13 Chapter 5:	Section 5.9
Unit 14 Chapter 7:	Sections 7.1, 7.2, 7.3, 7.7
Unit 15 Chapter 8:	Sections 8.1, 8.2
Unit 16 Chapter 8:	Sections 8.3, 8.5
Unit 17 Chapter 8:	Section 8.7
Unit 18 Chapter 9:	Section 9.1
Unit 19 Chapter 9:	Section 9.3
Unit 20 Chapter 9:	Section 9.5
Unit 21 Chapter 14:	Section 14.1
Unit 22 Chapter 15:	Section 15.1
Unit 23 Chapter 15	Sections 15.6
Unit 24 Chapter 15:	Section 15.7
Unit 25 Chapter 16:	Sections 16.1, 16.2
Unit 26 Chapter 16	Sections 16.5, 16.6, 16.7

Video Viewing Suggestions: It is highly recommended that students read the appropriate assignments before viewing the individual units. It is vital that students view all 26 units; it is recommended but not required that students view units more than once. Notes should be taken during the viewing process and any questions should be recorded for discussion with the instructor.

Library Information: Copies of each video series are available for viewing at the Rosa Parks library at 108 Molton Street. Call in advance for hours of operation or to reserve tapes at 241-9576.

Summaries of Lessons: Students are required to write a brief, approximately two to three paragraph, summary of each of the 26 TV units. Due dates for the summaries are:

Topic Paper: A paper is required of each student. Topics will be assigned to each student at the first meeting along with a separate hand-out which outlines the basic requirements for the paper. The primary reference source will be the course text. Topic papers will be due on or before April 25, 2008. Topic papers will not be accepted after April 25, 2008; students that have not turned in a topic paper by April 25, 2008 will receive a 0 for their topic paper grade.

Gene Elrod Success Center: (GESC): For students who must make up exams or receive assistance from tutors, the GESC is located on the 5th floor of Whitley Hall. Call in advance for hours of operation at 241-9530.

Disabilities: Troy University supports Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, which insure that postsecondary students with disabilities have equal access to all academic programs, physical access to all buildings, facilities and events, and are not discriminated against on the basis of disability. Eligible students, with appropriate documentation, will be provided equal opportunity to demonstrate their academic skills and potential through the provision of academic adaptations and reasonable accommodations. Further information, including appropriate contact information, can be found at the link for Troy University's Office of Human Resources at <http://www.troy.edu/humanresources/ADAPolicy2003.htm>. Contact Jane Rudick (241-9587) Bell Building, Suite 325 for further information.

Cell Phones and Other Electronic Devices: Use of any electronic device by students in the instructional environment is prohibited unless explicitly approved on a case-by-case basis by the instructor of record or by the Office of Disability Services in collaboration with the instructor. Cellular phones, pagers, and other communication devices may be used for emergencies, however, but sending or receiving non-emergency messages is forbidden by the University. Particularly, use of a communication device to violate the Troy University "Standards of Conduct" will result in appropriate disciplinary action (See pp. 42-52 of the *Oracle*).

In order to receive emergency messages from the University or family members, the call receipt indicator of devices must be in the vibration mode or other unobtrusive mode of indication. Students receiving calls that they believe to be emergency calls must answer quietly without disturbing the teaching environment. If the call is an emergency, they must move unobtrusively and quietly from the instructional area and notify the instructor as soon as reasonably possible. Students who are expecting an emergency calls should inform the instructor before the start of the instructional period.

Academic Honesty: All students should read the Standards of Conduct section of the TSU *Undergraduate Catalog* and pages 42-48 of the 2005-2006 *Oracle* which includes a discussion of the Academic Code and the penalties for misconduct.

Survey of Chemistry Lab, CHM L115

Troy University, Montgomery

Instructor: TBD

Course Description: The laboratory sessions will provide an overview of some of the basic concepts and techniques of general chemistry experiments. The students will conduct experiments that illustrate the concepts and principles learned in the Survey of Chemistry course lectures. **Corequisite:** CHM 1115.

Lab Meetings: The class meets 7:30 PM-9:30 PM on Fridays (see dates below) in room 536, Whitley Hall

Each student is required to prepare a lab report for each experiment completed. The format and content of the lab report will be discussed at the beginning of each lab session. The lab reports may be handwritten or typed but they must be neat and legible (see hand-out on lab reports). Completed lab reports are due at the next course meeting, whether it is lab or lecture. Five points will be deducted for each day a lab report is late. The lab final exam will cover the terms, concepts and techniques covered in lab.

Students are expected to attend each lab session. Students are required to contact the instructor prior to the lab session if they are not going to be in attendance. For an absence to be excused, it must be documented with, for example, a note from a doctor. A student with an excused absence will be required to submit an additional topic paper (see the lecture syllabus for information on on topic papers.) Students with an unexcused absence will receive a 0 for the lab session.

Grading:

Lab Reports 70%

Lab Final Exam 30%

Survey of Chemistry Lab Schedule

Date	Experiment
1/18	Lab Orientation/Lab Safety/Measurement Theory
1/25	Measurement and Significant Figures
2/1	Conversion Factors in Calculation
2/8	Density and Specific Gravity
2/15	Nuclear Radiation
2/22	Compounds and Their Formulas
2/29	Chemical Reactions and Equations
3/7	Measurement Uncertainty
3/21	Heat of a Reaction
4/4	Diameter of a Molecule
4/18	Energy and Matter
4/25	Acid/Base Titration
5/2	Lab Final Exam

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