Western Kentucky University
Ogden College of Science and Engineering
Department of Chemistry

CHEM 101.750: Introduction to Chemistry – Web Course
CRN: 10352
Winter 2014

Lecture/Discussion Meetings	*Instructor*	*Office Hours*
Web Course	Dr. Stuart Burris	By appointment only
	TCCW ???	Contact by e-mail with questions
3.0 Credit Hours	745-2973	
Gen Ed Category D & DL	stuart.burris@wku.edu	

Course Description (WKU Undergraduate Catalog)
A one semester terminal course covering applied chemistry and environmental considerations which can be used for general education requirements in the science field for non-science majors and minors. In-class laboratory constitutes 20 percent of class. It does not count toward a major or minor in chemistry, nor does it satisfy the requirements for certain home economics and agriculture majors.

Course Learning Objectives
In CHEM 101 students will:
1. learn how to apply the scientific method in basic chemical experimentation
2. be able to describe molecular structure and how it relates to intermolecular forces
3. be able to recognize simple chemical reactions such as acid-base and redox reactions in their everyday life

Learning Materials
Text: Joesten, M.; Hogg, J.; Neu, D. *CHEM 4LTR, 1st ed.*, Brooks/Cole, Cengage Learning: Belmont, CA, 2011.
ISBN-10: 0-538-73821-9; ISBN-13: 978-0-538-73821-7
Available for purchase at http://www.cengagebrain.com/shop/en/US/storefront/US?cmd=catProductDetail&ISBN=978-0-538-73821-7.
Coursemate site (includes e-book): Key = CM-9780538494274-00000165

Course Content
Chapters 1-3, 5, 8-12, & 14 are required. Chapters 4, 6, 7, 13, & 15-19 are optional.

Laboratory Content
You will complete five (5) laboratory exercises you can do in your kitchen. Laboratory exercise titles include:
Preparation of Glue from Milk
Coffee Filter Chromatography
Bonding & Molecular Shape
Household Acids & Bases
Preparation of Polymers
Handouts for labs will be available on Blackboard and reports will be submitted on Blackboard. Photo evidence is required in all lab reports. A master materials list for all labs will be available on Blackboard.

Evaluation
Final grades will be assigned with the following divisions. The grade you receive will be the grade you earn.

Points	950+	850-949	700-849	500-699	≤ 499
Letter	A	B	C	D	F

Item	Points Available
Chapter 1 (Required)	50
Other Required Chapters 2, 3, 5, 8, 9, 10, 11, 12, 14 – 100 points each	900
Lab Exercises – 40 points each	200
Optional Chapters 4, 6, 7, 13, 15-19 – 20 points each	180
Total	1330

How the course works

The majority of the work for this course is *mastery* oriented. You will have access to certain parts of the course immediately while access to later parts of the course depends upon your demonstrating *mastery* of earlier parts of the course.

Your grade-oriented goal is to accumulate enough points to reach your desired grade level, as indicated in the first table above. If you are satisfied with a 'C,' you need only accumulate 700 points. If you desire an 'A,' you will need to accumulate 900 or more points. As is evident from the second table above, there is ample opportunity to accumulate points.

Chapter 1 is an introductory chapter with 50 points available. Once you have demonstrated mastery of the quiz material in Chapter 1, you will be given access to the 100 points of quiz material for Chapter 2. Once you have demonstrated mastery of the quiz material in Chapter 2, you will be given access to the 100 points of quiz material for Chapter 3. The pattern follows for the other required material, Chapters 5, 8, 9, 10, 11, 12, & 14.

After demonstrating mastery of the required chapters, you will be given access to the quiz material for the remaining chapters (4, 6, 7, 13, 15, 116, 17, 18, and 19). These chapters have only 20 points of quiz material each.

Lab reports are worth 40 points each. Lab exercise descriptions will be released as you cover appropriate course material and must be submitted with that chapter before the next chapter will become available. A master materials list for all labs will be available on Blackboard.

Policies and Brief Assignment Descriptions

The academic policies stated in the *Undergraduate Catalog* (http://www.wku.edu/coursecatalog/index.php?subcategoryid=75) will be followed with the following highlights and additions. Students will be notified of any changes to this syllabus via e-mail and posting to Blackboard. In compliance with university policy, students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course must contact the Office for Student Disability Services in DUC A-200 of the Student Success Center in Downing University Center. The phone number is 745-5004. Please DO NOT request accommodations directly from the professor or instructor without a letter of accommodation from the Office for Student Disability Services.

Quiz Materials

Quiz materials will be broken down into three types: Terminology Quizzes, Thinkwell Video Quizzes, and General Quizzes. An 80% minimum score will be required on the Terminology Quiz in any given chapter before the other quiz materials for that chapter will become available. Unlimited attempts will be allowed on Terminology Quizzes. Thinkwell Video Quizzes will directly cover specific Thinkwell Videos. There will be no minimum score required on Thinkwell Video Quizzes. Only two attempts will be allowed on Thinkwell Video Quizzes. A 70% minimum score will be required on the General Quizzes in 'required' chapters before subsequent 'required' chapters will be made available. Initially, there will be a limit of 10 attempts on General Quizzes. Additional attempts may be requested by e-mail to Dr. Burris if the 70% minimum has not been met.

Timely Submission of Work

In order to ensure timely submission of work, the schedule below will be followed in assessing a penalty of 5% per day late (***including weekends***). Deadlines are all 11:59 PM on the date indicated. Working ahead is ***strongly*** encouraged.

Day	Date	Material Due
1 & 2	1/6 & 1/7	None (***get a head start***)
3	1/8	Chapter 1 Quiz Material
4	1/9	Chapter 2 Quiz Material
5	1/10	Lab 1 (Glue from Milk)
6	1/11	Chapter 3 Quiz Material
7	1/12	Chapter 5 Quiz Material
8	1/13	Lab 2 (Bonding & Molecular Shape)
9	1/14	Lab 3 (Coffee Filter Chromatography)
10	1/15	Chapter 8 Quiz Material

Day	Date	Material Due
11	1/16	Chapter 9 Quiz Material
12	1/17	Lab 4 (Household Acids & Bases)
13	1/18	Chapter 10 Quiz Material
14	1/19	Chapter 11 Quiz Material
15	1/20	Chapter 12 Quiz Material
16	1/21	Chapter 14 Quiz Material
17	1/22	Lab 5 (Polymers)
18	1/23	All Optional Chapters
19	1/24	Course closes at 11:59:59 PM