CH101 Tentative Syllabus
Summer 2004

Introduction:
This is a self-motivated, predominantly self-instructed, professor paced on-line course. In general, assignments are due four days a week – Monday, Tuesday, Thursday and Friday. The spacing should allow the slower or more conscientious students to stay ahead of the scheduled calendar. The text for this course is excellent! The questions/problems are engaging and provoking. It is my hope that you would both learn and enjoy what you learn during this semester.

Required Time Commitment:
A three hour class is required to "meet" for a total of 48 hours during the semester. That is, a three hour class "meets" for six hours each week for an eight week summer session. For every hour in class, it is recommended that you spend two hours outside of class. Therefore, in addition to the six hour week, add twelve hours. This is a total of *18 hours a week*. You are advised to divide these hours into a six-study-day week. You need only spend three hours on this class six days in seven.

Expectations:
Your assignments consist of typical end-of-chapter question along with the more thought provoking in-chapter problems. The in-chapter problems may involve web searches. In most cases, required web resources may be best accessed through the On-Line Resources provided by McGraw-Hill. You will need to register for these Resources the first day at http://highered.mcgraw-hill.com/sites/0072410159. See your text for details and registration code. In addition to valuable internet links, these Resources contain interactive material for each chapter called Figures Alive and Quizzes to test your knowledge. Exams will be based upon assigned reading, questions/problems, Figures Alive and Quizzes.

"End of Chapter Questions" and "In-Chapter Problems" are due by *10:00AM* on the day listed. You are advised to finish the assignment and submit it the evening before it is due. Assignments vary in difficulty and required time. Connection problems may also arise. Try not to work on an assignment the morning it is due. A 25% penalty will be assessed on late submissions up to 1:00PM the day they are due. Submissions past 1:00PM will not be accepted. On-Line Quizzes and "Your Turn" problems in the text are for your benefit: work them, but don't submit them.

Guidelines:
Class discussion is encouraged. If you have questions or comments, please post them for the class to read. However, if you must, you may also send me email; however, I will more than likely post my response to the class (in the likely event that others will have similar questions). Please respond to any postings by me or other students.

Evaluation:	Grades:	
Homework 50%	100%-90%	A
Exams 30%	89% - 79%	B
Final 22%	78% - 67%	C
	66% - 65%	D
	64% - 0%	F

Each exam, except the Final, counts 10% of your grade. A homework percentage grade will be assigned for each chapter. Each chapter homework counts 6.25% of your grade. The Final Exam is comprehensive – covering the entire semester, and counts for 20% of your grade.

Calendar Table

Date	Completed Sections	End of Chapter Questions Due	In-Chapter Problems Due	Exercises/Comments
5/26	Introduction			FigsAlive: Air/Breath Register for On-line Resources
5/28	1-1.3	2,3,5	1.2; 1.7	FigsAlive: % & ppm
6/1	1.4-1.7	9,14,31,35	1.14 omit last paragraph; List URL of source	
6/2	1.8-1.10	15,17	1.19 all; 1.23 even # worksheets	
6/3	1.11-end	21,25,37,40		Quiz1; Quiz2
6/4	2-2.3	3,4,5,8,30	2.1a	
6/7	2.4-2.7	16,17,32,33,34	2.11	FigsAlive: Essential/Concepts
6/8	2.8-2.11	18,21,22	2.18a,b; 2.21	FigsAlive: Extensions
6/10	2.12-end	22,38	2.25; 2.26a,b	Quiz1; Quiz2
6/11				**Exam**: Chapters 1-2
6/14	3-3.3	1,3,6,30	3.3; 3.6; 3.7; 3.8	FigsAlive: Essential/Concepts
6/15	3.4-3.5	10b,11b,12,13,14,34	3.12	
6/17	3.6-3.9	18,20,22,28,41	3.13a; 3.16; 3.23(post for class)	
6/18	3.10-end	25,48,50	3.29; 3.33	Quiz1; Quiz2
6/21	4-4.3	6,12,29	4.2; 4.3; 4.4	FigsAlive: Concepts
6/22	4.4-4.5	17b,19,42a,43,45	4.9	FigsAlive: Essentials
6/24	4.6-4.11	23,29	4.14b; 4.15	FigsAlive: Extensions
6/25	4.12-end	24	4.25; 4.31	Quiz1; Quiz2
6/28				**Exam**: Chapters 3-4
6/29	5-5.6	2,6,7,8	5.4a,b	
7/1	5.7-5.10	9,12,13b,c,d; 15,31,34	5.12	FigsAlive: Essentials/Concepts
7/2	5.11-end	23,24,25,40a		Quiz1; Quiz2
7/6	6-6.3	7b,8,30,42	6.3	FigsAlive: Essentials/Concepts
7/7	6.4-6.8	11a,14,16,17,31	6.9; 6.10b; 6.11a	
7/8	6.9-end	21a,24	6.23a,b,c	Quiz1; Quiz2
7/9	7-7.3	4,11,13a,18,32,42a	7.2	FigsAlive: Essentials
7/12	7.4-7.8	17,34,36,37,41,45		FigsAlive: Concepts
7/13	7.9-end	19,23,26		Quiz1: Quiz2
7/15				**Exam**: Chapters 5-7
7/16	8-8.2	2,7,10,14,16		FigsAlive (When available)
7/19	8.3	17,33	8.10a	
7/20	8.4-end	25,29,33,36,49		Quiz1; Quiz2
7/22				Comprehensive **Final Exam**

Referenced chapters are from the required text: Chemistry in Context: Applying Chemistry to Society, 4th Edition, American Chemical Society, McGraw-Hill publisher.

ASSISTANCE

Students with disabilities may identify themselves voluntarily to the Office for Students with Disabilities to request accommodations. The Office is located in Morgan Hall, Room 150, and it is responsible for providing assistance in arranging accommodations and for identifying resources on campus.

If you need to contact me, my summer office hours for this class are: 3-6 M,T,R.
Telephone: 785-231-1010x2266; Email: stephen.angel@washburn.edu
I will be unable to return telephone calls.

GENERAL EDUCATION SKILLS

This course fulfills a three hour general education requirement for Natural Sciences, Mathematics & Statistics. You will utilize the following three skills during the course of this class.

1. "Reason Mathematically and Understand Numerical Data": You will learn how to apply mathematical principles to interpret physical events. This requires comprehending numerical representations and logical analysis. These skills will be emphasized in chapters 1,3-5 of the lecture and throughout your laboratory exercises.
2. "Process Information Both in Terms of Synthesis and Analysis": Both in the laboratory and in recitation, you will have the opportunity to apply the theory of basic principles to solving problems. In the lab, you will learn how to analyze your own observations in relation to the theory presented in class. In recitation, you will have the opportunity to explain your sequence of reasoning to solve problems. The design of the curriculum and your text requires that you master each principle before proceeding; therefore, these skills will be reinforced throughout the semester and in all chapters.
3. "Solve Problems Using The Methods of Analysis Considering Evidence, Relevance and Validity": Because we are surrounded with physical data, you will learn to discriminate information's value, analyze it for reliability and apply it to answer relevant questions. You will be given more information than needed to solve problems in lecture, recitation and lab. Connections between problems and applicable data will be taught throughout the semester; however, you will especially need these skills developed by chapter 5 for they are essential in comprehending material presented in chapters 5 - 8 with attendant lab and recitations sections.