#### **CHEMISTRY 109 SYLLABUS**

#### SPRING 2005

Course ID: CHEM-109-002 (4 hours of credit) Call Number = 02159
Credits: 4 hours \*\* This course will have one-third more material than a 3 Credit Course!

Time: 8:40 am to 10:45 am Tuesdays and Thursdays (no classes on Fridays!)

Class Room: TCCW # 403

Instructor: Mr. Larry Clay Byrd E-Mail: larry.byrd@wku.edu

Office: TCNW 323 (WKU)

WKU Phone: 270 - 745-6018 I have voice-mail so you can leave me a message.

Home Phone: [7:00 PM to 9:00 PM]: 270-781-2954

Textbook: <u>Chemistry and Life</u> Prentice Hall Publishing Company [Sixth Edition]
By: John Hall, Stuart Baum and Rhonda Ennis

## Chemistry Handout Fee [Required]: \$8.00 Many Notes!!!

#### **IMPORTANT DATES:**

- 1. January 18 (Tuesday): LAST DAY to drop a course WITHOUT ANY GRADE! LAST DAY to change from AUDIT TO CREDIT!
- 2. January 17 (Monday): NO CLASSES !!!!!
- 3. March 01 (Tuesday): LAST DAY to drop a course with a W!

  LAST DAY to change from CREDIT TO AUDIT!
- 4. March 21 (Monday) to March 25 (Friday): SPRING BREAK!!!!!!!!
- 5. May 02 (Monday) to May 06 (Friday): FINAL EXAM DAYS !!!
  NOTES:
- 1. You will need a calculator that will add, subtract, multiply, and divide.
- 2. TV-Tapes Programs: There is one TV-VHS Tape in the Helm Library that you might want to use. Ask at the front desk for the BYRD Chem. 109 TV-Tape. The ONE TAPE contains all the following math review materials: Scientific Notation, Temperature Conversions, Factor-Label-Method and a low level review of Basic Algebra needed in this course. USE IT !!!!
- 3. HOUR TESTS: 80 % of your Final Grade in this course!!
  - A. HOUR TEST I : February 01 (Tuesday)
  - B. HOUR TEST II : February 24 (Thursday)
- C. HOUR TEST III: March 16 (Wednesday) From 6:00 pm to 8:00 pm in 330 TCNW

NIGHT EXAM ---- TWO CLASSES COMBINED

D. HOUR TEST IV: On the day of the FINAL EXAM!

10:30 AM to 12:30 on May 03 (Tuesday)

BYRD: CHEM109\ 2005\SYLLABUS-Chem109-TTh-Spring2005. SP5

# **CLASS MEETINGS**

## **SPRING 2005**

WEEK	TUESDA	AYS		THURSE	DAYS
1	January	11		January	13
2	January	18		January	20
3	January	25		January	27
4	February	01 [HOUR	TEST I]	February	03
5	February	08		February	10
6	February	15		February	17
7. II ]	February	22		February	24 [ Hour Test
8.	March	01****		March	03
*** If you need	l to dra	n then v	won MIIST	DROP	hy March

\*\*\* If you need to drop, then you MUST DROP by March 01 (Tuesday) since this is the LAST DAY for a W!!!!!!!

MIDTERM			MIDTERM					
9			March	08		March	10	•
10			March	15		March	17 [ No Class ! ]	
HOUR TCNW	TEST III	will	be given	at night on March	16 from	6:00 pm to 8	:00 pm in room 330	

11	March 21 (Monday) to	March 25 (Friday): SPRING BREAK!!!
12	March 29	March 31
13	April 05	April 07
14	April 12	April 14
15	April 19	April 21
16	April 26	April 28

17 Final Exam Week: Your HOUR TEST IV: May 03 (Tuesday): 10:30 am to 12:30pm

# OUTLINE FOR CHEMISTRY FOR THE HEALTH SCIENCES (CHEMISTRY 109) SPRING 2005

Chemistry 109 is mainly an Introduction to General Chemistry, but it also includes an Introduction to Organic and Biochemistry

**Credits: 4 semester hours** 

1 hour-and-50 minute meetings: 30-31 per semester

Textbook: <u>Chemistry and Life</u> Prentice Hall Publishing Company [Sixth Edition] By: John Hall, Stuart Baum and Rhonda Ennis

**Topics Meetings** 1. Matter and Energy 2 2. Metric System, Scientific Notation, Factor-Label Method, Temperature, Density, and **Significant Figures** 4 3. Atomic Structure 1 4. Electron Structure of the Atom 3 5. Ionic Bonding, Polyatomic Ions, Names and Formulas of Ionic Compounds, 4 and Formula Weight 6. Covalent Compounds, Dot Structures, Dash Structures, Coordinate Covalent Bonds, 4 Polar Bonds, and Naming of Covalent Compounds 7. Relative Weights, Mole-Gram Conversions, and Meaning of Balanced Equations 2 8. Characteristics of Gases, Dalton's Law, Boyle's Law, and Charles' Law 1 9. Characteristics of Solutions, Electrolytes, Equilibrium, Percentage Weight/Volume, 2 Percentage Volume, Volume, Dilution, Suspensions, and Dialysis 10. Acids, Bases, pH, and Blood Buffers 2 11. Introduction to Organic Chemistry and Biochemistry 5

#### **CHEMISTRY 109**

## OTHER GENERAL INFORMATION SPRING 2005

#### I. MR. LARRY BYRD - OFFICE HOURS:

1	3.7 1	11 15 4	11 45	1 20 4 2 20
1.	Monday:	11:15 to	0 11:45	1:30 to 3:30

- 2. Tuesday: 11:15 to 11:45
- 3. Wednesday: 11:15 to 11:45; 1:30 to 3:30
- 3. Thursday: 11:15 to 11:45; 1:30 to 3:30
- 4. Friday by Appointments
- 5. Others Days and Hours by Appointments \*\*\*\*\*\*

#### II. PURPOSE OF CHEMISTRY FOR THE HEALTH SCIENCES:

This course is designed to emphasize the practical aspects of inorganic, organic and biochemistry as related to human health. The course is offered specifically for students in the allied health programs, but is also recommended for students in physical education, recreation, institution administration, and health and safety. Also, this course may be used by any student to satisfy general education requirements.

III. PREREQUISITES: None. But a course in High School Chemistry sure helps.

#### IV. CLASS ATTENDANCE:

Registration in a course obligates the student to be regular and punctual in class attendance.

If I believe that EXCESSIVE ABSENTEEISM is contributing to the poor academic achievement of a student, I will request that the academic counseling and detention personnel in the Office of the Dean of Student Life arrange a counseling session with the student. After such counseling, continued excessive absenteeism may result in dismissal from my class with a failing grade!!

\*\* ALSO SEE OTHER PAGES about attendance on other part of syllabus.

#### V. STATEMENT OF COMPLIANCE:

Western Kentucky University is committed to equal opportunity in its educational programs.

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, Garret Conference Center room 101.

The OFSDS telephone number is (270)745-5004 V/TDD.

Please DO NOT request accommodations directly from the instructor without a letter of accommodation from the Office for Student Disability Services.

# Absenteeism/Tardiest

If you are late or absent from this class, your grade will suffer.

If you miss this class, you must turn in to me a signed note stating why you missed. If medical, death or WKU sponsored trip, you must supply proof.

It is your responsibility to find out from other students what was covered during your absence. Look around and learn at least two other students in your class. Get from them their phone numbers and/or E-mail addresses.

Late to class is equal to minus 0.5 points off YOUR TOTAL POINTS UP TO HOUR TEST IV!!!!!

EACH ONE absence, that is not excused by me, will result in 2.0 points per Absence off YOUR TOTAL POINTS UP TO HOUR TEST IV!!!!!

YOU Could Easily lose a FULL Letter Grade OFF !!!!

Thus, if you lose 6 points off your TOTAL AVERAGE up to Hour Test IV, that is over a half-a-letter grade.

If you have an 8:45 am class, you should plan to park in the Chestnut Lot.

HOWEVER, you must arrive by 7:15 am to find a parking place.

I will be in my office before class Starts and if you

# need help, see me before class!!!

#### **CHEMISTRY 109**

#### GENERAL GRADE INFORMATION

- I. HOUR TESTS, IN-CLASS- QUIZZES AND HOMEWORK-QUIZZES
  - A. IN-CLASS -QUIZZES and HOMEWORK-QUIZZES will be graded and recorded as specific Quizzes:

In - CLASS - Quizzes and HOMEWORK - Quizzes:
At <u>least</u> 10 TOTAL will be given during the semester!!!

Drop the one lowest grade up to midterm and then drop the one lowest grade after midterm. If you miss on a day an In-CLASS-Quiz or you miss on a day that a HOMEWORK- Quiz is due, then a grade of ZERO will be recorded for that missed material. There will be NO MAKE-UPS. The ZERO will be one of your Quizzes that will be dropped.

### YOU must NOT MISS THIS CLASS!!!!!

- B. HOUR TESTS: Four (see first page)
- II. FINAL LETTER GRADE IN CHEMISTRY 109:

	TESTS and QUIZZES	% OF FINAL GRADE
<b>A.</b>	QUIZ AVERAGE UP TO MIDTERM	10.0%
B.	HOUR TEST I	20.0%
C.	HOUR TEST II	20.0%
D.	QUIZ AVERAGE AFTER MIDTERM	10.0%
E.	HOUR TEST III	20.0%
F.	HOUR TEST IV	20.0%

- III. GRADING SCALE: A = 90 -100; B= 80 89; C= 70- 79; D= 60- 69; F= "BELOW" 60
- IV. ABSENCES:
- A. If you miss on a day a Quiz is given or a Homework-Quiz is taken up, a grade of ZERO will be recorded.
  - There will be no make-ups. This zero will be one of yours that will be dropped.
- B. Homework "Usually CAN NOT" be turned in late. You will receive a zero and it will be

your drop,

C.	Hour Tests: If missed, a make-up exam "may"	be given if an extremely good excuse is given.
	It is the "STUDENT'S RESPONSIBILITY"	to check with the instructor if an exam is
	"MISSED."	

GR	ADE IN CHEM	IISTRY:	CHEM 10	9				
	ACHER: PROFI						NAME, FIRS	T
	CLASS TIME AND DAYS: 8:45 am to 10:45 am TTH TODAY'S DATE:  SEMESTER: SPRING 2005							
SEN	IESTER: SPR	ang 2005	)					
G	RADE S	HEET	FOR	FIRST	HALF	OF T	HE SEM	ESTER
I.	HOUR TEST I	:						
	A. TRUE RAW	SCORE (	on HOUR T	TEST I:	What you made	on the Test ]	:	
	B. EXTRA CR				·			
[ rou	C. YOUR TOT D. YOUR POINT On answer off to I round off	NTS ON I the nearest	HOUR TEST ± 0.1 ]	I: [ 0.20	0 (20.0%) TIM OINTS ON H	IES IC ]: OUR TEST I		HOUR TEST I
II.	QUIZZES UP	TO MIDTE	ERM:					
	A. GRADES O	N EACH	QUIZ UP T	O MIDTERM:				
	1	4	7	10	13	16	19	-
	2	5	8	11	14	17	20	_
	3	6	9	12	15	18	21	_
	B. AVERAGE							
[ Dro	op the one lowest;	find aver	age and the	n round off to t	the nearest $\pm 0$ .	1]	[ possible	e 100.0%]
l III.	C. YOUR POINT IN THE POINT IN T	es 0.100 (10.	0%)][round	off to the neares	st ± 0.1][ possib			
	C. YOUR TOT	AL SCORE	E on HOUR	TEST II:	Add IIIA +	IIIB = III	C 1:	
			- 1100 <b>1</b>	= <b></b> ·				
	D. YOUR POI						POINTS ON HO	OUR TEST II]
IV.	YOUR TOTAL	POINTS	U <b>P TO MID</b>	TERM:				

midte	•	total points a	dd ID + II	C + IIID = 1	IV ]	[ There are	50.0 points poss	sible up to
V.	YOUR AVERA	GE UP TO	MIDTERM	:				
midte VI.		nd off to the r	nearest ± 0.1%	TERM:		ere is a possib	ility of 100.0 % av	verage up to
GRA TEA	A> 89.4%; D: CHEM109\ 200 ADE IN CHEM ACHER: <u>PRO</u> ASS TIME ANI IESTER: <u>SPI</u>	OS \ M-New( ISTRY: <u>C</u> FESSOR L O DAYS: <u>8</u> RING 2005	GSheet-109 CHEM 109 ARRY BY :45 am to 10	RD	PRI PR <u>TOI</u>	NT : LAST INT : LAST DAY'S DA	T NAME, FI	FIRST RST
		GRADI	E SHE	ET FOR	AFTER	R MIDT	ERM	
IV. VII.	B. EXTRA CE C. YOUR TOT D. YOUR POI	III: W SCORE of REDIT for I	on HOUR T HOUR TEST  on HOUR  OUR TEST	EST III: III: FEST III: [	Add VIIA + (20.0%) TIME	viiB = Vii S VIIC ]:	C ]:	
VIII.	YOUR TOTAL [ Add IV + VI	,		NT) AFTER	HOUR TEST 1	III:	[ 70.0 pc	oints possible ]
IX.	QUIZZES AFT	ER MIDTE	RM:					
	A. Grades on	each QUIZ	AFTER MI	DTERM:				
	1	4	7	10	13	16	19	_
	2	5	8	11	14	17	20	_
	3	6	9	12	15	18	21	_
MIDT	C. YOUR POI	one lowest; in the state of the	find average JIZZES AFT (10.0%)] [re	and then round ER MIDTERM ound off to near	l off to the ne 11:	arest ± 0.1%	[ po	
XI.		DD VIII + I	XC = X ] OSS OF POI	NTS Because (		or Absentee	- <del>-</del>	e 80.0 points ]

VII. THE TRUE DAW COOPE VOII must make an HOUR TEST IV to massive on A	<b>A</b> —
XII. THE TRUE RAW SCORE YOU must make on HOUR TEST IV to receive an A, B, C or D in this course!!! [FIRST, for an A, subtract X section above from 90	A= B=
and then divide by 0.20 ] For B, 80 then as above. For C, 70. For D, 60	C=
Finally, subtract XI Section above, from your calculated value! ]	D=
XIII. HOUR TEST IV:	
A. TRUE RAW SCORE on HOUR TEST IV: [What you made on the Test]	:
<del></del>	
B. EXTRA CREDIT for HOUR TEST IV: [ Same as XI ]:	
C. YOUR TOTAL SCORE on HOUR TEST IV: [Add XIIIA + XIIIB = XIIIC]	<b>:</b>
D. YOUR POINTS ON HOUR TEST IV: [ 0.200 (20.0%) TIMES XIIIC ]:	
[round answer off to the nearest $\pm 0.1$ ] [possible 20.4]	POINTS ON HOUR TEST
IV ]	
XIV. YOUR TOTAL POINTS IN CHEMISTRY 109:	
[Add X + XIIID = XIV]	possible 100.0 points
XV. YOUR LETTER GRADE IN CHEMISTRY 109:	[ possible Toolo points ]
[ Find your XIV (TOTAL POINTS IN CHEMISTRY) on Grade Scale below:	
A> 89.4 pts; B>79.4 pts; C>69.4 pts; D>59.4 pts; F= below 59.5 pts]	