**Chemistry in Society (CHEM 1400) Syllabus**

**FALL 2014**

**Dr. Kim Reynolds**

Contact information Class Meeting Times

**Office: Laney Annex 124** Lecture (**Lan 102**): TR 10:50 – 12:15 PM

(501) 852-2655 Lab Sections (**Lan 202**):

F 8:00 – 9:50 AM

kareynolds@uca.edu T 2:40 – 4:30 PM

Office Hours

Monday 2:00 - 2:50 PM

Tuesday 9:25 - 10:30 AM

\*Appointments may also be made upon request

\* I also have an OPEN DOOR policy, so feel free to stop by any time you see my door open!

**WEEKLY TUTORING**: TTh 5:30-7:30 PM beginning Sept. 2nd in Laney room 103

**1400 CHEMISTRY IN SOCIETY** Study of chemistry for the lower-division UCA Core (general education) program, with emphasis of learning chemical principles on a need-to-know basis to address societal- technological issues such as environmental problems, energy uses, drugs, polymers, nutrition, and genetic engineering. Small-group work, laboratory instruction, and the worldwide web are all used. Critical thinking and problem-solving skills are emphasized. Three hours of lecture and 2 hours of laboratory per week. CHEM 1400 does not count towards a major or minor in chemistry, a minor in physical science, a major in general science, or a minor in physical science. No prerequisite.

Course Materials:

1. Text: Investigating Chemistry: a Forensic Science Perspective by Matthew Johll
2. Approved ANSI Z. 87 laboratory eye protection

UCA policies:

Students are encouraged to familiarize themselves with all the policies listed in the UCA Student Handbook. Students should pay particular attention to the Academic Policy on page 23 and the Sexual Harassment Policy on page 93. The University of Central Arkansas adheres to the requirements of the Americans with Disabilities Act. If you need accommodations under this Act due to a disability, please contact the UCA office of Disabilities Services, 450-3135.

Grading Grading Scale

4 Exams (100 pts each) 400 pts A > 90%

Final Exam (200 pts) 200 pts B 80%

10 labs (10 pts) 100 pts C 70%

Total 700 pts D 60%

F 50% and below

Missed Quizzes, Tests, and other points

A missed quiz cannot be made up. A missed exam may be made up at my discretion. If you miss an exam for a valid and significant reason, and you contact me either through email or phone before the scheduled exam begins, then we can discuss the possibilities of a make-up exam. If you contact me after the exam, no make-up exam can be given. Tardiness to exams/quizzes is discouraged. No extra time may given to tardy students, so please try to be on time, EVERY TIME. ☺

Class Attendance and Participation

Poor class attendance will be taken into account in determination of final grade at the critical areas. You are advised to attend all lectures since material presented in class will supplement the text will be included in quizzes and exams. Furthermore, all in-class bonus opportunities are mainly spontaneous and will not be able to be made up once missed. Students who miss class are responsible for the material presented in class and class announcements.

Class Disruption

Cell phones should remain off during lecture and laboratory. Texting and social talking is not acceptable during lecture and labs. We have a lot material to cover in a semester, and social visiting inhibits the learning process for you and those around you. Students engaged in social talking, texting and/or disruptive behavior will be asked to leave the lecture or laboratory.

Academic Honesty

Cheating or representing someone else’s work as your own is severely discouraged. The penalties for cheating are severe and include, but are not limited to, assigning an “F” for the work and/or the course and expulsion from the University. The University of Central Arkansas affirms its commitment to academic integrity and expects all members of the university community to accept shared responsibility for maintaining academic integrity. Students in this course are subject to the provisions of the university's Academic Integrity Policy, approved by the Board of Trustees as Board Policy No. 709 February 2010 and published in the Student Handbook. Penalties for academic misconduct in this course may include a failing grade on an assignment/quiz/exam, a failing grade in the course, or any other course-related sanction the instructor determines to be appropriate. Continued enrollment in this course affirms a student's acceptance of this university policy.

Title IX Disclosure

If a student discloses an act of sexual harassment, discrimination, assault, or other sexual misconduct to a faculty member (as it relates to "student-on-student" or "employee-on-student"), the faculty member cannot maintain complete confidentiality and is required to report the act and may be required to reveal the names of the parties involved. Any allegations made by a student may or may not trigger an investigation. Each situation differs and the obligation to conduct an investigation will depend on those specific set of circumstances. The determination to conduct an investigation will be made by the Title IX Coordinator. For further information, please visit: <https://uca.edu/titleix>. *\*Disclosure of sexual misconduct by a third party who is not a student and/or employee is also required if the misconduct occurs when the third party is a participant in a university-sponsored program, event, or activity.*

The best way to study for this course is described below:

1. Before lecture, read chapter summaries and topics to be covered.
2. Attend class lectures. Some of the information included in my lectures will not be found in your text. While attending class is your choice, you will be held responsible for material presented in class, regardless of whether it is included in your text book or not. More so than possibly any other subject, students who do not attend class are unlikely to succeed in this course.
3. After lecture, read the text in detail and review lecture notes. Both will re-emphasize the material, helping to clarify it in your mind. Emphasize areas that were unclear to you after lecture.
4. **PRACTICE, PRACTICE, PRACTICE!!** Working examples in the text and problems at the end of the chapter are extremely important tools for transforming concepts into concrete knowledge. This is possibly the most important transition that much occur to succeed in this course.
5. Ask questions and get help! If you are confused about a topic or have questions PLEASE ASK for help or clarification!! If you have a question during lecture, please ask it. If you get lost at one point in the lecture it is unlikely that the remaining part of the lecture will make any sense. Don’t be embarrassed – if you have questions it means you are paying attention. I am also available to answer questions during my office hours.

**Tentative Class and Lab Schedule**

All dates and content are subject to change

Week Lab

Aug 26-29 Ch. 1 & 2 Safety

Sept 2-5 Ch. 3 Measurement

Sept 9-12 Ch. 4 **EXAM 1** Sunscreen

Sept 16-19 Ch. 4 & 9 Blood Alcohol

Sept 23-26 Ch. 9 & 10 Drug ID

9/30-10/3 Ch. 10 **EXAM 2**  NO LAB

Oct 7-10 Ch. 5 & 6 Fingerprints

Oct 14-17 Ch. 5 & 6 NO LAB

Oct 21-24 Ch. 7 & 8 Chromatography

Oct 28-31 Ch. 7 & 8 **EXAM 3** Fabric ID

Nov 4-7 Ch. 7, 8, and 13 NO LAB

Nov 11-14 Ch. 11 & 13 Blood Splatter

Nov 18-21 Ch. 12 **EXAM 4** Extracting DNA: Strawberry

Nov 25-28 **THANKSGIVING BREAK**

Dec 2-5 TBA NO LAB

**Thursday, Dec 11 11 AM COMPREHENSIVE FINAL**

*\*\*\*\* Fri – October 31 – Final day to withdraw from class with a ‘W’ grade*