**Chemistry 3A Lab, Fall 2015 Course Syllabus**

**Reedley College, SCCCD**

**Course Info:**

Course #: 56080 – Lab Mon 2:30-5:35pm in PHY-82

**Instructor and Contact Information:**

Instructor: Kurtis Thiesen

Office: HUM 61

Office Hours: M 8-9am; W/F 9-10am; T/Th 11am-12pm

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| --- | --- | --- | --- |
| **Week** | **Date** | **PPE** | **Lab** |
| 1 | Aug17 | N | Safety; How to use the equipment/glassware; Safety Quiz; Calculator and significant figures: SG 1 |
| 2 | Aug 24 | Y | Exp 3: Denisty of liquid and solid |
| 3 | Aug 31 | Y | Exp 1: Properties and changes of matter |
| 4 | Sept 7 | Y | **No Lab – Labor Day** |
| 5 | Sept 14 | N | Molecular modeling and Lewis dot WS |
| 6 | Sept 21 | N | Nomenclature handout |
| 7 | Sept 28 | Y | Exp 5: Simplest Formula of a Compound, MgO |
| 8 | Oct 5 | Y | **Lab Quiz 1** followed by study session |
| 9 | Oct 12 | Y | Exp 7: Percent copper recovery |
| 10 | Oct 19 | Y | Exp 8: Alum production from scrap aluminum |
| 11 | Oct 26 | N | Mole ratio and stoichiometry SG 3 |
| 12 | Nov 2 | Y | Exp 9: Production of hydrogen gas |
| 13 | Nov 9 | N | Molarity and concentration SG 4 |
| 14 | Nov 16 | Y | Exp 10: pH lab |
| 15 | Nov 23 | Y | Exp 11: Acid base titration lab, mock practical |
| 16 | Nov 30 | Y | Exp 12: Lab practical-acid base titration |
| 17 | Dec 7 | N | **Lab quiz 2**;clean up and review for final |
| 18 | Finals Week | N | No lab |

**Grades (taken from Mr. Blanken’s syllabus):**

The final grade is calculated as follows:

|  |  |
| --- | --- |
| Laboratory (30%) of  total grade | **Lab quizzes 10% 2 quizzes** |
| **Lab practical, acid/base titration 5%** |
|  | **Lab reports 15%** |
| Lecture Material (70%)  of total grade | **Exams 40%, 4 exams**  **Final 20%** |
|  | **Homework Assignments and in class quizzes 10 %** |

The grading scale to be used is **A** 90-100%, **B** 80-89%, **C** 70-79%, **D** 60-69%, **F** 0-59%

**Lab procedure and experiment explanation (copied from Mr. Blanken’s syllabus):** The labs for each lab period will be available on the Chem. 3A Blackboard site for download. These are to be printed out and read in advance of coming to lab. After carefully reading the lab directions and theory sections, the prelab is to be completed and the lab procedure is to be summarized and written out in an easy to follow outline format before coming to class. When writing out the lab procedure have in mind what information would be needed to conduct the experiment. You will be conducting the experiment entirely from your own notes. The prelab and the procedure must be done before coming to lab. These will checked at the beginning of lab and are worth 50% of the lab. If neither are completed before lab the student will be given a 0 for the lab, 2 zeros or unexcused absences from lab will result in the student being dropped. The grade breakdown for each lab is as follows, 30% for prelab completed correctly, 20% for the procedure being done before class and correctly(if it’s not legible I can’t grade it) and 50% for the lab and calculations to go with the lab. The laboratory notes and calculations must be legible to receive full credit.

**Laboratory Work (copied from Mr. Blanken’s syllabus)**: Lab work will follow as closely as possible the material discussed in the lectures. The student is required to complete all the assigned experiments, 50% of the final lab grade will include the average of the graded lab work. The other 50% of your lab grade is determined by the average of the 2 lab quizzes and a lab practical, which is a demonstration of laboratory skill. Please refer to the lab schedule to determine which lab will be done during each lab period. If you know you need to miss a lab, attend the other lab section the same week. **No make up labs or make up lab quizzes will be allowed after the week they were assigned as the chemicals and equipment will no longer be available.**

**In the lab (copied from Mr. Blanken’s syllabus)**:

o **Attendance to the lab is mandatory, coming late will result in the student not being allowed to perform the experiment, coming late is a violation of standard safety protocol.**

o Cleanliness in the lab is very important in preventing accidental contamination. At the end of each lab thoroughly clean work area by disposing of loose paper and wiping countertops. Points will be deducted from experiment if work area is left messy.

o Safety glasses at all times while experimental work (by you or anyone else) is being performed

o No experiments may be conducted without the instructor or teaching assistant present

o No horseplay or unauthorized experiments. Do not taste any chemical or smell any chemical directly.

o No visitors inside the lab. You need to go outside to meet with them.

o No food or drinks allowed.

o Backpacks should not be left on the floor where others can trip over them.

o Closed toed shoes must be worn in the lab at all times, no sandals.

o Long hair should be tied back so it will not fall into chemicals or flames.

o If any accident occurs in the lab, inform your instructor immediately and follow safety procedures. (To be discussed during first lab period)

o Clean up any spills promptly (Clean-up procedures will be discussed during first lab period)

o Do not point the open end of a test tube towards anybody

o Turn off flames when working with organic solvents. Dispose of them in waste bottles in the fume hood, not down the sink.

o At the beginning of each lab your instructor will inform you of any special safety precautions and how to dispose of used chemicals. You need to be on time for the lab so that you hear these instructions.

o Do not dispose of matches, paper or solid chemicals in the sink. Use the large evaporating dishes for spent matches.

o Put broken glassware in the “broken glassware container”, not with the trash.

o Before leaving the lab, wipe the desktop and wash your hands with soap and water.

o No sagging, it’s disrespectful to yourself and to the people around you.

*If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible.*