CHEM 103-01  
Calculations in Chemistry  
Syllabus  
Summer II 2018  
MWF 8:30-9:50am  
SSMB 300

Instructor: Dr. Pam Riggs-Gelasco  
Office: SSMB 324  
Phone: 953-5587  
E-mail: gelascop@cofc.edu  
Office Hours: Tuesday and Thursday 2:30-3:30 pm or by appointment

About this course: This course previews mathematical manipulations common to general chemistry. It serves as a good preparation course for Chem 111.

Student Learning Outcomes
1. To practice fundamental math skills as applied to Chemistry problems  
2. To develop problem-solving techniques that will serve throughout your college career  
3. To be able to properly name, manipulate and write chemical compounds and formulas  
4. To use stoichiometry to calculate theoretical and percent yields

Attendance: Students are expected to attend all class sessions. Attendance counts 10% of the final grade calculation. Students may have one excused absence without penalty. Each absence after that will incur a loss of 2%.

Textbook: Some materials will be provided as handouts in class. An online general chemistry textbook to read as a supplement to lecture can be found here:  
https://openstax.org/details/books/chemistry

Tentative Schedule

Friday, July 6  
Syllabus, Opening Exercise, Math Exercise Intro

Monday, July 9  
Turn in Math Exercise homework  
Metric Conversions, Sig Figs,

Wednesday, July 11  
Quiz on Math Exercises, Metric conversions and sig figs;  
Mole concept/Parts of Atom/Periodic table

Friday, July 13  
Turn in Mole concept/parts of atom homework  
Mass %

Monday, July 16  
Quiz on Mole concept and Mass %  
Types of compounds

Wednesday, July 18  
Turn in compound homework  
Types of compounds and naming

Friday, July 20  
Test 1
Monday, July 23  
Balancing equations, stoichiometry

Wednesday, July 25  
Turn in Stoichiometry homework  
Stoichiometry continued

Friday, July 27  
Quiz on equation stoichiometry  
Limiting reagents

Monday, July 30  
Turn in limiting reagent homework  
Other algebraic topics in chemistry (light equations and gas laws)

Tuesday, July 31  
Test 2

Grading:
Homework: 20%
Attendance: 10%
Quizzes: 30%
Tests: 40%

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**Accommodations for Disability**: Any student eligible for and needing accommodations because of a disability is requested to speak with the professor during the first two weeks of class or as soon as the student has been approved for services so that reasonable accommodations can be arranged.

**Academic Integrity**: Students are expected to abide by the College of Charleston’s Honor Code and are referred to the Student Handbook to review this policy:  