CHEM 1212L – Principles of Chemistry 2 Laboratory

SUMMER, Session 2, 2020

Co-requisite: CHEM 1212

This 1-credit hour course is fully online on CourseDen, with live office hours.

**General Information**

**Instructor** Dr. Farooq A. Khan  
Email: fkhan@westga.edu, to be used for urgent communication only

**Technology** Capability to access CoursDen and Google Hangouts, and to scan and upload documents; access to Microsoft Excel/Word/PowerPoint/ pdf files

**Office Hours** Mondays, Thursdays and Fridays (Google Hangouts), 9:30-11 am;  
Additional office hours, by appointment

**Communication** Announcements  
Please email within CourseDen and post in the Discussion Area (Common Questions/Various Topics)  
I will make every effort to respond within 24 hours of your email or your post in the Discussion Area (Common Questions/Various Topics).

**Overview of Course Activities (400 points total)**  
Please see details on Pages 2 and 3

<table>
<thead>
<tr>
<th>Activities</th>
<th>Points</th>
<th>Due Dates at 11:59 pm Eastern</th>
<th>Navigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Syllabus Discussion</td>
<td>10</td>
<td>Monday, June 8</td>
<td>Discussion</td>
</tr>
<tr>
<td>Biography Discussion</td>
<td>10</td>
<td>Monday, June 8</td>
<td>Discussion</td>
</tr>
<tr>
<td>Laboratory Reports</td>
<td>300</td>
<td>Mondays</td>
<td>Assignments</td>
</tr>
<tr>
<td>7 @ 50 points each; the lowest will be dropped</td>
<td></td>
<td>June 8, 15, 22, 29</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>July 6, 13, 20</td>
<td></td>
</tr>
<tr>
<td>Essay outline</td>
<td>20</td>
<td>Tuesday, June 23</td>
<td>Assessments</td>
</tr>
<tr>
<td>Essay</td>
<td>60</td>
<td>Tuesday, July 7</td>
<td>Assessments</td>
</tr>
</tbody>
</table>
Course Policies

Learning Outcomes

1. To communicate chemistry with clarity. Attainment of this learning outcome will be reflected by the students’ abilities to:
   ➢ Follow oral and written instructions to successfully complete virtual laboratory assignments and data analyses; and
   ➢ Write formal laboratory reports as chemists write.

2. Use appropriate scientific tools to acquire data virtually, process and analyze information, and communicate results.

Letter Grades
Score ≥90% A; 89-78% B; 77-67% C; 66-55% D; <54% F

Written work
Please use standard American English. Please ask – would your professor in ENGL 1101/1102 be happy to read your work? I suggest writing using Word, saving your work frequently, for all your work.

Submission of work, including late work
Late work will not be accepted, and will be awarded zero credit, unless there is an emergency that is appropriately documented.

Policy on cheating
Occurrences of cheating are rare. However, cheating by one individual raises questions about fairness for the rest of the class, and indeed, endangers the honor code that governs our examination system. It is after considerable thought that I have arrived at the following formula. If an individual cheats on a quiz/homework/examination for the first time, he/she will obtain a score of zero for that particular quiz/homework/examination. If an individual is caught cheating a second time during the semester, he/she will receive a grade of F for the entire course.

Resources for Students with disabilities
The Office of Accessibility Services at the University of West Georgia is committed to providing access to campus resources and opportunities to allow students with disabilities to obtain a quality educational experience at UWG.

Please see the site:
https://www.westga.edu/student-services/counseling/accessibility-services.php

Common Syllabus Items at UWG
Please refer to the site below for information on academic support, honor code, email policy, credit hour policy and HB 280 campus carry policy:
https://www.westga.edu/administration/vpaa/common-language-course-syllabi.php
Description of Activities

General
CourseDen will be used as the platform for announcements, course materials, email and online discussions, as well as submission of assignments.

Textbook/Kits
None.

Discussion Topic: Syllabus
Please read the syllabus, and post a question relevant to the course. This will also serve as your required participation in the first week of the course. **Missing this assignment will result in an automatic withdrawal from the course.**

Discussion Topic: Biography
In approximately 200-250 words, introduce yourself to the class. Please see your instructor’s biography as a representative example.

Activities (Please see page 4)
Activities of two kinds will be conducted:
- Analysis of data, primarily using Microsoft Excel;
- Virtual laboratories

Laboratory Reports
One laboratory report will be due each Monday starting on June 8 at 11:59 pm, based on activities conducted each week.

Essay
Write an essay on any chemical/biological aspect of COVID-19, using the concepts discussed in CHEM 1211/1212 or the accompanying laboratories.

- An outline (200 words approximately), excluding references is due on Tuesday, June 23.
- The essay (1000 words approximately), excluding references and figures is due on Tuesday, July 7.

I will give ONE opportunity for submitting revised work.

General comments on the learning environment
Please take your assigned work seriously; I will make every effort to anticipate difficulties in the online learning environment and be helpful during my office hours!
Tentative schedule of Activities

Please see descriptions under Content for Activities 3-9

<table>
<thead>
<tr>
<th>Activity Number</th>
<th>Activity</th>
<th>Navigation</th>
<th>Due date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Syllabus Discussion</td>
<td>Discussion</td>
<td>June 8</td>
</tr>
<tr>
<td>2</td>
<td>Biography Discussion</td>
<td>Discussion</td>
<td>June 8</td>
</tr>
<tr>
<td>3</td>
<td>Excel Data Analysis</td>
<td>Dropbox</td>
<td>June 8</td>
</tr>
<tr>
<td>4</td>
<td>Heating curve &amp; Colligative Properties</td>
<td>Dropbox</td>
<td>June 8</td>
</tr>
<tr>
<td>5</td>
<td>Kinetics</td>
<td>Dropbox</td>
<td>June 15</td>
</tr>
<tr>
<td>6</td>
<td>Qualitative Analysis</td>
<td>Dropbox</td>
<td>June 22</td>
</tr>
<tr>
<td>7</td>
<td>The Chemistry of Hand Sanitizers and Soaps</td>
<td>Dropbox</td>
<td>July 6</td>
</tr>
<tr>
<td>8</td>
<td>pH and Buffers</td>
<td>Dropbox</td>
<td>July 13</td>
</tr>
<tr>
<td>9</td>
<td>Titrations</td>
<td>Dropbox</td>
<td>July 20</td>
</tr>
</tbody>
</table>