THE UNIVERSITY OF TEXAS RIO GRANDE VALLEY
DEPARTMENT OF CHEMISTRY

CHEM 1112 / General Chemistry II Lab / Course Syllabus

*Course Syllabus may be subject to change

Instructor: Ms. Vanessa L. Garcia, M.S.  
E-mail address: vanessa.garcia@utrgv.edu
Office: SETB 2.358  
Office Hours: M-Th 10:30am-11:30am

Course description: A continuation of CHEM 1111 using more advanced laboratory techniques such as volumetric, gravimetric, and spectrophotometric methods of analysis and qualitative inorganic analysis to reinforce topics covered in CHEM 1312.

Prerequisites: CHEM 1311 and CHEM 1111 (General Chemistry I Lecture and Lab) with “D” or better. Credit with minimum grade of “D” or current enrollment in CHEM 1312 (General Chemistry II Lecture)

REQUIRED SUPPLIES
   1. Laboratory Coat (long sleeve)  
   2. Safety eye-glasses  
   3. Scientific Calculator  
   4. Scantron Sheets

Student Learning Outcome for General Chemistry:
1. To understand and apply method and appropriate technology to the study of natural sciences.
2. To recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to communicate findings, analyses, and interpretation both orally and in writing.
3. To identify and recognize the differences among competing scientific theories.
4. To demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies.
5. To demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture.

Learning Objectives for Core Curriculum Requirements
This course meets 1 hour of the core requirement for Integrative and Experiential Learning Courses (up to 3 hours from science labs) in this category involve interdisciplinary topics or approaches and/or learning through direct experience. Science Labs (maximum 3 hours; offered in conjunction with science courses listed in the Life and Physical Sciences component area).

CALENDAR OF ACTIVITIES
June 5  Summer I and Summer III Terms Begins
June 30  Last day to drop a summer I course; will count toward the 6-drop rule
July 4  4th of July Holiday – No classes
July 11  Summer I Final Exams
July 13  Summer II Term Begins
July 28  Last day to drop a summer III course; will count toward the 6-drop rule
August 8  Last day to drop a summer II course; will count toward the 6-drop rule
BLACKBOARD & EMAIL
I will make extensive use of Blackboard. All of the experiments will be posted ahead of time under Course Materials and will be available for students to access. Make sure to periodically check your Blackboard and UTRGV e-mail accounts for announcements and posting from the instructor. Email communication with the instructor will only occur via your UTRGV email address.

LAB ATTENDANCE
Attendance to the lab is strictly enforced. Students are required to do all the laboratory experiments at the scheduled time. After 10 minutes of the beginning of the laboratory, students will not be allowed in the lab, resulting in a “0” for that particular lab. No make-up labs are given unless you can show a verifiable, and a legitimate reason for missing. If a verifiable, and legitimate reason is presented and accepted, you must fill out the MAKE-UP LAB FORM and return to Ms. Garcia the next class.

LAB SAFETY
Students are required to wear the proper laboratory personal protective equipment (PPE - long pants that cover the entire legs, closed shoes, laboratory coat, and safety eye-glasses) for each lab at all times. Students will not be allowed to perform the experiment without the proper PPE resulting in a “0” for that particular lab. Absolutely no horseplay, food, drinks, or chewing gum allowed.

LAB REPORTS
Please make sure that the data sheet of each experiment is complete before you leave the lab. SEE THE CALENDAR BELOW for the due dates of lab reports. NO LATE REPORTS WILL BE ACCEPTED!
A complete lab report includes 4 different items (unless otherwise specified):
- Title Page (typed - double spaced, 12 pt font, Times New Roman font, black ink only)
  - Experiment Title
  - Date of Experiment
  - Your name/partners name
- Data sheet (pencil or blue/black ink only)
- Calculations (pencil or blue/black ink only)
  - Calculations will be written on a separate sheet of paper.
  - Lab reports will not be accepted without calculations and/or if not written on a separate sheet of paper, resulting in a “0” for the lab report. NO EXCEPTIONS!
- Observations (typed – double spaced, 12 pt font, Times New Roman font, ¾ -page minimum, paragraph form, black ink only)

EXAMS
There will be 2 major exams given during the semester. SEE THE CALENDAR BELOW for the exam dates. ABSOLUTELY NO CELL PHONES OR OTHER ELECTRONICS will be permitted during the exams! If caught with a device that is prohibited, the exam will be taken away and a zero “0” will be given as the official grade for the exam.

EXAM MAKE-UP POLICY
Make up exams, including exams need to be taken early, will only be given due to a major medical illness requiring immediate treatment, there is a death of an immediate family member, you must participate in a required university activity, you are observing a religious holy day, or you are currently serving in the military. Documentation is required for all of these cases. In the cases of
your illness or a family member’s death, documentation is required when you return to campus. In
the case of a required university activity, a religious holy day, or military service, documentation is
required at least one week prior to the activity. In case a make-up exam is given, it will be at the
discretion of the instructor and at a time convenient to her schedule. Please note, however, that a
makeup exam might be different than the regularly scheduled exam.

QUESTIONS ON GRADED REPORTS/EXAMS
If a student believes that a question on a report/exam has been miss graded, the student should
bring it up to the instructor’s attention during office hours (NOT DURING CLASS TIME) without
delay. The student MUST support his/her claim by working out the problem in advance and present
a written solution to it. If the question entails theory, then the student must provide the textbook
page or place in the class notes were his or her claim is supported. Please make sure to take care of
any problems before the next exam or assignment. I will NOT discuss any grading concerns after
this period.

Double check your marked answers on your Scantron Sheet on exams before submission. No credit
will be given for mismarked answers! NO EXCEPTIONS!

GRADING POLICY

<table>
<thead>
<tr>
<th>Grade</th>
<th>Range</th>
<th>Grade Points</th>
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<tbody>
<tr>
<td>A</td>
<td>90-100</td>
<td>4.00</td>
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<tr>
<td>B</td>
<td>80-89</td>
<td>3.00</td>
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<td>C</td>
<td>70-79</td>
<td>2.00</td>
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<tr>
<td>D</td>
<td>60-69</td>
<td>1.00</td>
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<tr>
<td>F</td>
<td>59 and Under</td>
<td>0.00</td>
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CALENDER

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<thead>
<tr>
<th>Week</th>
<th>Exp. No.</th>
<th>Experiment</th>
<th>Due</th>
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<tbody>
<tr>
<td>June 5-6</td>
<td></td>
<td>Orientation, Syllabus, Safety</td>
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<tr>
<td>June 7-8</td>
<td>1</td>
<td>Check In/The Rate of Reaction between KMnO₄ and H₂C₂O₄</td>
<td>Safety Agreement</td>
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<tr>
<td>June 12-13</td>
<td>2</td>
<td>Chemical Equilibrium</td>
<td>Report #1</td>
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<td>June 14-15</td>
<td>3</td>
<td>Dry Lab – Acid-Base Problem Solving</td>
<td>Report #2</td>
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<td>June 19-20</td>
<td>4-5</td>
<td>Molar Mass of a Solid &amp; Qualitative Analysis Techniques</td>
<td>Report #3</td>
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<tr>
<td>June 21-22</td>
<td></td>
<td><strong>Exam 1 (Exp. 1-5)</strong></td>
<td>Report #4 Report #5</td>
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<tr>
<td>June 26-27</td>
<td>6-7</td>
<td>Qualitative Analysis of Group I Cations (Known &amp; Unknown)</td>
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<tr>
<td>June 28-29</td>
<td>8</td>
<td>The pH in Acid-Base Dilutions</td>
<td>Report #6</td>
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STUDENTS' CODE OF CONDUCT
Students are expected to carry themselves and to behave as adults and to show respect for fellow students, the professor and the university setting. A high degree of decorum is expected from the students while in this class. No class room misconduct such as talking in class, using cell phones or any other way that disturbs the lecture delivery will be tolerated. Student(s) behaving in such matter will be asked to leave the class room. If the problem persists, the student(s) will be permanently barred from class.

STUDENTS WITH DISABILITIES
If you have a documented disability (physical, psychological, learning, or other disability which affects your academic performance) and would like to receive academic accommodations, please inform your instructor and contact Student Accessibility Services to schedule an appointment to initiate services. It is recommended that you schedule an appointment with Student Accessibility Services before classes start. However, accommodations can be provided at any time. Brownsville Campus: Student Accessibility Services is located in Cortez Hall Room 129 and can be contacted by phone at (956) 882-7374 (Voice) or via email at ability@utrgv.edu. Edinburg Campus: Student Accessibility Services is located in 108 University Center and can be contacted by phone at (956) 665-7005 (Voice), (956) 665-3840 (Fax), or via email at ability@utrgv.edu.

MANDATORY COURSE EVALUATION PERIOD
Students are required to complete an ONLINE evaluation of this course, accessed through your UTRGV account (http://my.utrgv.edu); you will be contacted through email with further instructions. Students who complete their evaluations will have priority access to their grades. Online evaluations will be available:
July 2 – July 11, 2017 for the summer I term
August 9 – August 18, 2017 for the summer II term
August 2 – August 18, 2017 for the summer III term

ATTENDANCE
Students are expected to attend all scheduled classes and may be dropped from the course for excessive absences. UTRGV’s attendance policy excuses students from attending class if they are participating in officially sponsored university activities, such as athletics; for observance of religious holy days; or for military service. Students should contact the instructor in advance of the excused absence and arrange to make up missed work or examinations.

SCHOLASTIC INTEGRITY
As members of a community dedicated to Honesty, Integrity and Respect, students are reminded that those who engage in scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and expulsion from the University. Scholastic dishonesty includes but is not limited to: cheating, plagiarism, and collusion; submission for credit of any work or materials that are attributable in whole or in part to another person; taking an examination for another person; any act designed to give unfair advantage to a student; or the attempt to commit
such acts. Since scholastic dishonesty harms the individual, all students and the integrity of the University, policies on scholastic dishonesty will be strictly enforced (Board of Regents Rules and Regulations and UTRGV Academic Integrity Guidelines). All scholastic dishonesty incidents will be reported to the Dean of Students.

**SEXUAL HARASSMENT, DISCRIMINATION, and VIOLENCE**
In accordance with UT System regulations, your instructor is a “responsible employee” for reporting purposes under Title IX regulations and so must report any instance, occurring during a student’s time in college, of sexual assault, stalking, dating violence, domestic violence, or sexual harassment about which she/he becomes aware during this course through writing, discussion, or personal disclosure. More information can be found at www.utrgv.edu/equity, including confidential resources available on campus. The faculty and staff of UTRGV actively strive to provide a learning, working, and living environment that promotes personal integrity, civility, and mutual respect in an environment free from sexual misconduct and discrimination.

**COURSE DROPS**
According to UTRGV policy, students may drop any class without penalty earning a grade of DR until the official drop date. Following that date, students must be assigned a letter grade and can no longer drop the class. Students considering dropping the class should be aware of the “3-peat rule” and the “6-drop” rule so they can recognize how dropped classes may affect their academic success. The 6-drop rule refers to Texas law that dictates that undergraduate students may not drop more than six courses during their undergraduate career. Courses dropped at other Texas public higher education institutions will count toward the six-course drop limit. The 3-peat rule refers to additional fees charged to students who take the same class for the third time.
CHEM 1112 MAKE-UP LAB FORM

*MUST MAKE-UP DURING WEEK EXPERIMENT IS BEING CONDUCTED

1. Notify Ms. Garcia (via e-mail) of your absence 24-hours before the missed class. Ms. Garcia will determine whether your absence is excusable.
2. If excusable, contact the lab instructor for permission to attend his/her class.
3. Fill out this form with the lab instructor's signature.
4. Turn in this form and the complete lab report to Ms. Garcia during the next class to get credit for the missed lab.

Student Name: _______________________
ID: __ __ __ __ __ __
Date Absent: M T W Th __ __-__-2017

Attended Lab: 1112. __ __
Attended Lab Date: M T W Th __ __-__-2017

Check Missed Experiment:

| □ | 1 | The Rate of Reaction between KMnO₄ and H₂C₂O₄ |
| □ | 2 | Chemical Equilibrium |
| □ | 3 | Dry Lab – Acid-Base Problem Solving |
| □ | 4 | Molar Mass of a Solid |
| □ | 5 | Qualitative Analysis Techniques |
| □ | 6 | Qualitative Analysis of Group I Cations (Known) |
| □ | 7 | Qualitative Analysis of Group I Cations (Unknown) |
| □ | 8 | The pH in Acid-Base Dilutions |
| □ | 9 | Electrochemistry of Half Cells & Half Reactions |
| □ | 10 | Thermodynamics Prediction of Precipitation Reactions |
Instructor Signature: ____________________________
Date: ______________