Instructor: Eugene F Douglass, MS, PhD Organic Fiber/Polymer Science
E-mail address: eugene.douglass@utrgv.edu

Office: BSETB 2.358
Office Hours: M – F 815am – 915am Others by Appointment as necessary

Course description: A continuation of CHEM 111 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 with a minimum grade of “D”, concurrent with CHEM 1312 or you took lecture before.

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).
**Summer 2019 ACADEMIC CALENDAR**

Jun. 3 (Mon.) Summer I classes begin
Last day to withdraw (drop all classes) and receive an 80% refund

Jun. 4 (Tues.) Last day to add a class or register for Summer I classes
Last day to withdraw (drop all Summer I classes) and receive a 50% refund

Jun. 6 (Thurs.) Census Day (last day to drop without it appearing on the transcript)

Jun. 27 (Thurs.) Last day to drop (DR grade) a class or withdraw (grade of W)

July 4 (Thurs.) Independence Day. No classes.

July 8 (Mon.) Study Day. No classes.

July 9 (Tues.) Final Exams; Official last day of the Summer I term

**BLACKBOARD & EMAIL**

I will make extensive use of Blackboard, and my shared One-drive folder. 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 Grades will NOT be placed on Blackboard for security reasons, and to avoid misleading you, as final grades are determined at the end of the semester with different criteria.

**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, if you miss a lab, the average of the others will make up the report grade portion. The only exception is if it is okay with professors teaching other lab sections, you may join there section, but only on their approval and my approval, this will be permissible on a case-by-case basis.

**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. And lab reports are due one week after the lab is performed. **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

- **An introduction** as why you are doing the lab and what the learning objective is, a body with basic procedure summary, summary of results, a discussion of observations, and lastly a conclusion paragraph, summarizing final results, stating what you learned from the lab, and why it was important. Use your own words, each lab report must be written as an individual.

- **Data sheet** (pencil or blue/black ink only) with calculations as described below.
• Calculations (pencil or blue/black ink only)
  o **Calculations will be written on a separate sheet of paper.**
  o Lab reports will not be accepted without calculations. 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 below for dates. ABSOLUTELY NO CELL PHONES 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.

GRADING POLICY

<table>
<thead>
<tr>
<th>LAB REPORTS</th>
<th>60 %</th>
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<tbody>
<tr>
<td>EXAM I</td>
<td>20 %</td>
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<tr>
<td>EXAM II</td>
<td>20 %</td>
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<td><strong>TOTAL</strong></td>
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<tr>
<th>Grade</th>
<th>Range</th>
<th>Grade Points</th>
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<td>A</td>
<td>90-100</td>
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<td>B</td>
<td>80-89</td>
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<td>C</td>
<td>70-79</td>
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<td>D</td>
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<td>F</td>
<td>59 and Under</td>
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CALENDAR

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<thead>
<tr>
<th>Day</th>
<th>Lab</th>
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<tbody>
<tr>
<td>June 3</td>
<td>Orientation and syllabus overview/ safety refresher</td>
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<tr>
<td>June 5</td>
<td>1. Check-in/ The rate of reaction between KMnO₄ and H₂C₂O₄</td>
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<td>June 10</td>
<td>2. Chemical equilibrium</td>
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<td>June 12</td>
<td>3. Qualitative analysis of known and known samples of group I cations.</td>
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<td>June 17</td>
<td>4. Determination of molar mass of a solid by freezing point depression</td>
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<td>June 19</td>
<td>EXAM I (EXPS 1 - 4)</td>
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<td>June 24</td>
<td>5. Dry lab: acid-base problem solving</td>
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<td>June 26</td>
<td>6. pH in acid-base titrations</td>
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<td>July 1</td>
<td>7. Electrochemistry of half cells and half reactions</td>
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<td>July 3</td>
<td>8. Thermodynamic predictions of precipitation reactions/ Check-out</td>
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<tr>
<td>July 9</td>
<td>EXAM II (EXPS 5 - 9)</td>
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STUDENTS’ CODE OF CONDUCT
Students are expected to carry themselves, 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:
Students with a documented disability (physical, psychological, learning, or other disability which affects academic performance) who would like to receive academic accommodations should contact Student Accessibility Services (SAS) as soon as possible to schedule an appointment to initiate services. Accommodations can be arranged through SAS at any time but are not retroactive. Students who suffer a broken bone, severe injury or undergo surgery during the semester are eligible for temporary services.
**Pregnancy, Pregnancy-related, and Parenting Accommodations**

Title IX of the Education Amendments of 1972 prohibits sex discrimination, which includes discrimination based on pregnancy, marital status, or parental status. Students seeking accommodations related to pregnancy, pregnancy-related condition, or parenting (reasonably immediate postpartum period) are encouraged to contact Student Accessibility Services for additional information and to request accommodations.

**Student Accessibility Services:**

**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 on or about:

TBA

**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 (including self-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 that is free from sexual misconduct and discrimination. If students, faculty, or staff
would like confidential assistance, or have questions, they can contact OVAVP (Office for Victim Advocacy & Violence Prevention) at 665-8287, 882-8282, or OVAVP@utrgv.edu.

**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.

**STUDENT SERVICES:**
Students who demonstrate financial need have a variety of options when it comes to paying for college costs, such as scholarships, grants, loans and work-study. Students should visit the Students Services Center (U Central) for additional information. U Central is located in BMAIN 1.100 (Brownsville) or ESSBL 1.145 (Edinburg) or can be reached by email (ucentral@utrgv.edu) or telephone: (888) 882-4026. In addition to financial aid, U Central can assist students with registration and admissions.

Students seeking academic help in their studies can use university resources in addition to an instructor’s office hours. University Resources include the Learning Center, Writing Center, Advising Center and Career Center. The centers provide services such as tutoring, writing help, critical thinking, study skills, degree planning, and student employment. Locations are:

- Learning center: BSTUN 2.10 (Brownsville) or ELCTR 100 (Edinburg)
- Writing center: BLIBR 3.206 (Brownsville) or ESTAC 3.119 (Edinburg)
- Advising center: BMAIN 1.400 (Brownsville) or ESWKH 101 (Edinburg)
- Career center: BCRTZ 129 (Brownsville) or ESSBL 2.101 (Edinburg)