Instructor Name: Remi Oki, PhD  
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Snail Mail (U.S. Postal Service) Address: Prairie View A&M University  
Department of Chemistry  
P.O. Box 519  
Mail Stop –2215  
Prairie View, TX 77446  
Office Hours: 10:00-12:00 TR, Other times by appointment  
Course Location: Room 201 EE O’Banion Science Building  
Class Meeting Days & Times: Friday 11:00am – 1:50pm  
Times arranged with Instructor  
Course Abbreviation and Number: CHEM 5023  
Catalog Description: CHEM 5023 Research. Problems for investigation may be selected from one of the following fields of chemistry: 1. Analytical; 2. Biochemistry; 3. Inorganic; 4. Organic; and 5. Physical 3 semester credit hours  
Prerequisites: None.  
Co-requisites: None  
Required Text: None  
Access to Learning Resources:  
PVAMU Library: Telephone: (936) 261-1500;  
web: http://www.pvamu.edu/pages/3585.asp  
University Bookstore: Telephone: (936) 261-1990;  
web: https://www.bkstr.com/Home/10001-10734-1?demoKey=d  
Course Goals:  
To develop student skills for independent research and problem solving.  
Course Objectives Learning Objectives/Accrediting Body American Chemical Society (ACS) Standards Met: A, B, E, F.
Course Learning Objectives:

Upon completion of this course, students are expected to understand:

- Possess a thorough understanding of the research project in chosen field
- Apply the chemistry knowledge to solve research problems
- Able to develop acceptable research plans and utilize essential instrumentations to tackle research problems
- Develop laboratory skills to successfully complete original research
- Be able to effectively communicate result obtained

COURSE OUTLINE:

<table>
<thead>
<tr>
<th>Unit 1</th>
<th>Assessment #1 Submitted Literature and background report</th>
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<tbody>
<tr>
<td>Assignment of Research Topic and conduct Literature Search and problem identification</td>
<td>Assessment #2 Protocol approval</td>
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<tr>
<td>Unit 2</td>
<td>Assessment #3 due December 14, 2009.</td>
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<td>Develop the necessary approach and laboratory Protocols to solve problem</td>
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<td>Unit 3</td>
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<tr>
<td>Conduct research, using several Instrumentation, data collection and analysis and submission of report</td>
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Course Evaluation Methods:

Research Plan: A brief (100-200 words) synopsis of the proposed research must be submitted by the second week of class. The synopsis must include a rationale, planned experiments and a bibliography

Research Paper: This report should be typical of a manuscript submitted to a journal and cover background material for the project, experimental procedure, data and interpretation of results. This report should be written in a professional style: see ACS guidelines at http://www.chemistry.org/portal/a/c/s/1/acsdisplay.html?DOC=education\cpt\ts_rrguide.html

Presentation: A 10-15 minute presentation of the work should be made at a departmental seminar

Laboratory Notebook: The student will develop and maintain a notebook on all research activities
Grading Matrix

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Value (points or percentages)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Plan</td>
<td>20pts</td>
<td>20</td>
</tr>
<tr>
<td>Research Paper</td>
<td>40pts</td>
<td>40</td>
</tr>
<tr>
<td>Presentation</td>
<td>20points</td>
<td>20</td>
</tr>
<tr>
<td>Laboratory notebook</td>
<td>20 points</td>
<td>20</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>100</strong></td>
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Grade Determination:
A = 100-90pts;
B = 89-80pts;
C = 79-70pts;
D = 69-60pts;
F = 60 or below

UNIVERSITY RULES AND PROCEDURES

Disability statement (See Student Handbook):
Students with disabilities, including learning disabilities, who wish to request accommodations in class, should register with the Services for Students with Disabilities (SSD) early in the semester so that appropriate arrangements may be made. In accordance with federal laws, a student requesting special accommodations must provide documentation of their disability to the SSD coordinator.

Academic misconduct (See Student Handbook):
You are expected to practice academic honesty in every aspect of this course and all other courses. Make sure you are familiar with your Student Handbook, especially the section on academic misconduct. Students who engage in academic misconduct are subject to university disciplinary procedures.

Forms of academic dishonesty:
1. Cheating: deception in which a student misrepresents that he/she has mastered information on an academic exercise that he/she has not mastered; giving or receiving aid unauthorized by the instructor on assignments or examinations.

2. Academic misconduct: tampering with grades or taking part in obtaining or distributing any part of a scheduled test.

3. Fabrication: use of invented information or falsified research.

4. Plagiarism: unacknowledged quotation and/or paraphrase of someone else’s words, ideas, or data as one’s own in work submitted for credit. Failure to identify information or essays from the Internet and submitting them as one’s own work also constitutes plagiarism.
Nonacademic misconduct (See Student Handbook)
The university respects the rights of instructors to teach and students to learn. Maintenance of
these rights requires campus conditions that do not impede their exercise. Campus behavior
that interferes with either (1) the instructor's ability to conduct the class, (2) the inability of other
students to profit from the instructional program, or (3) campus behavior that interferes with the
rights of others will not be tolerated. An individual engaging in such disruptive behavior may be
subject to disciplinary action. Such incidents will be adjudicated by the Dean of Students under
nonacademic procedures.

Sexual misconduct (See Student Handbook):
Sexual harassment of students and employers at Prairie View A&M University is unacceptable
and will not be tolerated. Any member of the university community violating this policy will be
subject to disciplinary action.

Attendance Policy:
Prairie View A&M University requires regular class attendance. Excessive absences will result
in lowered grades. Excessive absenteeism, whether excused or unexcused, may result in a
student's course grade being reduced or in assignment of a grade of “F”. Absences are
accumulated beginning with the first day of class.

Student Academic Appeals Process
Authority and responsibility for assigning grades to students rests with the faculty. However, in
those instances where students believe that miscommunication, errors, or unfairness of any kind
may have adversely affected the instructor's assessment of their academic performance, the
student has a right to appeal by the procedure listed in the Undergraduate Catalog and by doing
so within thirty days of receiving the grade or experiencing any other problematic academic
event that prompted the complaint.

ADDITIONAL CLASS POLICIES:
Students are expected to be respectful of peers and instructor at all times.

Instructor will take questions at the beginning and end of each class session. Questions during
lecture should be relevant to that topic. Excessive talking, inappropriate behavior or other
classroom disruptions by any student will result in a deduction in class participation points.

Attendance is recorded during class sessions at a time (which may vary) designated by the
instructor. Without exception, if a student is not present when roll is called, they will be marked
absent. Excessive absences will also result in lowered class participation points.

Homework assignments are due on exam days. Late homework assignments will be penalized
at 10% for each calendar day.

There will not be any make-ups for missed in-class quizzes. On-line quizzes (administered
through WebCT) will be announced in class and students will be allowed a minimum of 36 hours
to complete them. Deadlines are firm and no make-ups will be permitted.
Success in General Chemistry is dependent on the student using all available resources and spending sufficient time after lecture working on the concepts. In addition to the textbook and notes taken in lecture, WebCT will be an important resource. WebCT will allow for the posting of syllabi, suggested problems and quizzes. Homework assignments will be either assigned from the text or will be given in the form of handouts. It is the instructor’s recommendation that students spend time after every class reviewing notes, completing problems and reading for the next class session.

Technical Considerations for Online and Web-Assist Courses

Minimum Hardware and Software Requirements:
- Pentium with Windows XP or PowerMac with OS 9
- 56K modem or network access
- Internet provider with SLIP or PPP
- 8X or greater CD-ROM
- 64MB RAM
- Hard drive with 40MB available space
- 15" monitor, 800x600, color or 16 bit
- Sound card w/speakers
- Microphone and recording software
- Keyboard & mouse
- Netscape Communicator ver. 4.61 or Microsoft Internet Explorer ver. 5.0 /plug-ins
- Participants should have a basic proficiency of the following computer skills:
  · Sending and receiving email
  · A working knowledge of the Internet
  · Proficiency in Microsoft Word
  · Proficiency in the Acrobat PDF Reader
  · Basic knowledge of Windows or Mac O.S.

Netiquette (online etiquette): students are expected to participate in all discussions and virtual classroom chats when directed to do so. Students are to be respectful and courteous to others in the discussions. Foul or abusive language will not be tolerated. When referring to information from books, websites or articles, please use ADA standards to reference sources.

Technical Support: Students should call the Prairie View A&M University Helpdesk at 936-261-2525 for technical issues with accessing your online course. The helpdesk is available 24 hours a day/7 days a week. For other technical questions regarding your online course, call the Office of Distance Learning at 936-261-3290 or 936-261-3282

Communication Expectations and Standards:
All emails or discussion postings will receive a response from the instructor within 48 hours.

You can send email anytime that is convenient to you, but I check my email messages continuously during the day throughout the work-week (Monday through Friday). I will respond to email messages during the work-week by the close of business (5:00 pm) on the day following my receipt of them. Emails that I receive on Friday will be responded to by the close of business on the following Monday.

Submission of Assignments:
Assignments, Papers, Exercises, and Projects will distributed and submitted through your online course. Directions for accessing your online course will be provided. Additional assistance can be obtained from the Office of Distance Learning.

**Discussion Requirement:**
Because this is an online course, there will be no required face to face meetings on campus. However, we will participate in conversations about the readings, lectures, materials, and other aspects of the course in a true seminar fashion. We will accomplish this by use of the discussion board.

Students are required to log-on to the course website often to participate in discussion. It is strongly advised that you check the discussion area daily to keep abreast of discussions. When a topic is posted, everyone is required to participate. The exact use of discussion will be determined by the instructor.

**It is strongly suggested** that students type their discussion postings in a word processing application and save it to their PC or a removable drive before posting to the discussion board. This is important for two reasons: 1) If for some reason your discussion responses are lost in your online course, you will have another copy; 2) Grammatical errors can be greatly minimized by the use of the spell-and-grammar check functions in word processing applications. Once the post(s) have been typed and corrected in the word processing application, it should be copied and pasted to the discussion board.