BIOL 3380-110, 10117, RESEARCH METHODS  
Spring 2020  
Texas A&M University-Central Texas  

COURSE DATES, MODALITY, AND LOCATION  
This course meets face-to-face, with some supplemental readings made available online using the A&M-Central Texas Canvas Learning Management System [https://tamuct.instructure.com].  

Time/Day: Lecture: TR 2:30 pm – 3:45 pm  
Where: Warrior Hall 311  

INSTRUCTOR AND CONTACT INFORMATION  
Instructor: Dr. Linh Pham  
Office: 302 F Heritage Hall  
Phone: 254-519-8012  
Email: All communication should be conducted through Canvas “Inbox”. No exceptions!  

Office Hours:  
Monday: 1:00 pm – 4:00 pm  
Thursday: 9:30 am – 10:30 am or by appointment  

Student-instructor interaction:  
In this course, face to face interaction with the instructor is one of the most effective ways to learn. Therefore; I encourage my students to go to my office hours whenever you have questions. If students cannot make it to my office hours, do not hesitate to contact me by email at Canvas “Inbox” for an appointment. I will reply within 24 hours, usually within couples of hours on weekdays. Response time may vary in weekends and holidays.  

WARRIOR SHIELD  
Emergency Warning System for Texas A&M University-Central Texas  
Warrior Shield is an emergency notification service that gives Texas A&M University-Central Texas the ability to communicate health and safety emergency information quickly via email, text message, and social media. All students are automatically enrolled in Warrior Shield through their myCT email account.  

Connect to Warrior Shield by 911Cellular [https://portal.publicsafetycloud.net/Account/Login] to change where you receive your alerts or to opt out. By staying enrolled in Warrior Shield, university officials can quickly pass on safety-related information, regardless of your location.  

COURSE INFORMATION  
Course Overview and description  
BIOL 3380 involves the study of the scientific methods, types of research, and research design as related to biology and biochemistry. In this course, students are required to review, analyze,
and interpret research findings in their major field. In particular, students are expected to
design and carry out a long-term project in which they will have to present oral reports and
write a scientific paper with the assistance of their instructor.

This is a **Writing Intensive** course, which means writing will be an integral part of measuring
your mastery of course content. Throughout the course, you will have several opportunities to
work on improving your writing skills. Since learning to revise your writing is fundamental to
improving writing skills, I will give you detailed feedback that includes specific strategies for
how to improve your writing.

BIOL 3380 is also a **Service-Learning** course in which students learn to relate theory to practice
in Biology and Biochemistry by participating in an organized service activity that meets
identified community needs. **Students will work closely with Nursing department students** to
design a final educational pamphlet about selected educational topics that are of interest to
TAMUCT community partners based on research and expertise. These activities are designed to
meet instructional objectives and gain a broader appreciation for Biology and Biochemistry and
an enhanced sense of civic responsibility.

**Prerequisite:** Junior Status

**Course Objective or Goal**

By the end of the course, students should be able to demonstrate knowledge and
understanding in:

1. Research terminology
2. Ethical principles of research, ethical challenges and approval processes
3. Quantitative, qualitative, and mixed methods to approach research
4. Components of a literature review process
5. Critical analysis of published research articles
6. Communication of research result in oral form and writing form
7. Writing scientific papers

**Student Learning Outcomes (SLOs)**

Students who successfully complete this course will be able to:

1. Exhibit integrative problem solving skills such as literature search, experimental design,
data interpretation, and data evaluation.
2. Develop ability to think critically about biology and biochemistry
3. Communicate ideas in oral form using professional language
4. Develop and improve ability to write scientific critiques and papers using professional
language
5. Apply scientific arguments in matters of social/community importance
6. Collaborate with students in a different discipline (nursing) on a joint project

**Required Reading and Textbook(s)**

- **Required:** A short guide to writing about Biology by Jan A. Pechenik, ninth edition
- **Suggested:** Experimental design for the life sciences by Graeme D. Ruxton and Nick Colegrave, third edition.

* I expect you to read the corresponding chapters in your textbook before coming to class. *
### COURSE REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Percentage</th>
<th>Points</th>
<th>SLOs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignments</td>
<td>25%</td>
<td>250</td>
<td>1, 2, 4</td>
</tr>
<tr>
<td>Oral Presentation</td>
<td>10%</td>
<td>100</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>Service Learning Project</td>
<td>10%</td>
<td>100</td>
<td>1, 5, 6</td>
</tr>
<tr>
<td>Term Paper</td>
<td>50%</td>
<td>500</td>
<td>1, 2, 4</td>
</tr>
<tr>
<td>Attendance and Participation</td>
<td>5%</td>
<td>50</td>
<td>3, 5, 6</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
<td><strong>1000</strong></td>
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</table>

1. **Assignments**: There are seven assignments. Four of them are writing intensive including three scientific paper critiques and one formal lab report.
2. **Oral Presentation**: There is one oral presentation. Detailed rubric of the oral presentation is attached to the end of this syllabus.
3. **Service-learning Project**: Students will collaborate with NURS 4212 students to design pamphlets about selected educational topics that are of interest to TAMUCT community. Detailed rubric will be provided later.
   - **Required inter-professional course component**: Students will work closely with Nursing department students to develop and organize a final educational pamphlet based on research and expertise. Participation and collaboration are heavily weighted throughout the project. Students are expected to develop a communication plan, meet all deadlines, and participate in development of the final project. All communication will be through the course via WebEx Meetings.
   - **Communication Plan Contract**: Introduce self, establish communication, and establish a plan of action.
   - **Participation**: Participation will be based on timely submissions, providing constructive feedback towards final project, collaborate and participate in final project board and information organization.
4. **Term Paper**: There is one term paper; you will have multiple submissions throughout the semester but the final version will be submitted at the last week of the semester. Detail rubric of the term paper is attached to the end of this syllabus.
5. **Attendance and Participation**: Class attendance and participation are important for student’s success in this course. If you miss more than three classes you will lose 50 points. No make-up of missed class is available.

### Grading Criteria Rubric and Conversion

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Course Grades</th>
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<tr>
<td>90% or higher</td>
<td>A</td>
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A 4.00  Achievement that is outstanding relative to the level necessary to meet course requirements.
B 3.00  Achievement that is significantly above the level necessary to meet course requirements.
C 2.00  Achievement that meets the course requirements in every respect.
D 1.00  Achievement that is worthy of credit even though it fails to meet fully course requirements.
F 0.00  Represents failure and signifies that the work was either (1) completed but at a level of achievement that is not worthy of credit or (2) was not completed and there was no agreement between the instructor and the student that the student would be awarded an “I” (incomplete).

I (Incomplete)  The “I” shall be assigned at the discretion of the instructor when, due to extraordinary circumstances, the student was prevented from completing the work of the course on time. The assignment of an “I” requires a written agreement between the instructor and student specifying the time and manner in which the student will complete the course requirements. In no event may any such written agreement allow a period of longer than one year to complete the course requirements. For graduate and professional students, an “I” is to remain on the transcript until changed by the instructor or department. For all other students, work to make up an I must be submitted within one year of the last day of final examinations of the term in which the “I” was given; if not submitted by that time, then the “I” will automatically change to an F. To obtain an incomplete you must have been doing passing work in the course.

Posting of Grades
- Student grades will be posted on the Canvas Grade book.
- The turn-around time for grades is as follows:
  - For short assignments such as discussions, paper critiques and homework: 7-10 days.
  - For exams, technical and term papers: 10-14 days.

Grading Policies
Read these carefully as I am strict with my policies.
Grading Policy and Point Breakdown. Grades in this course will be criteria-based on a number of activities including presentations, assignments, lab reports, term paper, participation and attendance. This means that grades will not be curved and anyone achieving a 90% or above will receive an A in this course.
Grade Dispute Policy. Grading disputes must be put in writing (with justification such as supporting statements from the text or another credible source) and given to me no earlier than 24 hours after the assignment has been returned. I will consider your request carefully,
but reserve the right to adjust your grade up or down.

**Late Assignments.** I expect all assignments to be turned in on time. Late assignments interfere with my ability to provide timely, detailed feedback, as well as with your ability to learn and process new material. Accordingly, any unauthorized late assignment will receive a 5% reduction in grade for each day it is late. No assignments will be accepted after the closing date on Canvas.

**COURSE OUTLINE AND CALENDAR**

**Complete Course Calendar**

The following schedule may be subjected to modification and corrections during the course of the semester.

<table>
<thead>
<tr>
<th>Week</th>
<th>Lecture Topics</th>
<th>Chapters/Deadlines</th>
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| **Week 1** (Jan 13-19) | - Introduction to Research in Biology and Chemistry  
- Term paper topics | Chapter 1                          |
| **Week 2** (Jan 20-26) | - Locating Useful Sources and Literature Research  
- **Assignment 1: References** | Chapter 2  
**January 23: Topic Approval** |
| **Week 3** (Jan 27 – Feb 2) | - Paper Outlines  
- Exercise on paper outlines | -Reading assignment provided by instructor |
| **Week 4** (Feb 3-9) | - Citing Sources and Listing References  
- Practice: Refworks Citation  
- **Assignment 2: Citation** | - Chapter 2 + reading assignment |
| **Week 5** (Feb 10-16) | - Reading and Writing about Statistical Analyses  
- **Assignment 3: Application of Statistics in Biology and Chemistry** | Chapter 4  
**February 11: Term paper outline** |
| **Week 6** (Feb 17-23) | - Annotated Outline  
- Exercise on annotated outlines | Reading assignment provided by instructor |
| Week 7 | - Annotated Outline  
- Exercise on annotated outlines  
- Reading a Scientific Paper and Note Taking  
- Assignment 4: Writing critiques on reading assignment 1. | - Chapter 3  
- Reading assignment provided by instructor |
|---|---|---|
| Week 8 | - Writing a Lab Report  
- Assignment 5: Write a formal Lab Report on the hypothetical set of data from a biochemistry lab. | - Chapter 9  
- Reading assignment provided by instructor  
March 3: Term paper annotated outline |
| Week 9 | Spring Break – No class | |
| Week 10 | - Presenting Research Findings: Preparing Talks and Poster Presentation  
- Assignment 6: Writing critiques on reading assignment 2. | - Chapter 11 |
| Week 11 | - Tables and Figures | - Reading assignment provided by instructor |
| Week 12 | - Drafting and Revising a Review Paper  
- Assignment 7: Writing critiques on reading assignment 3. | - Chapter 6  
- Reading assignment provided by instructor  
April 2: First submission of the term paper |
| Week 13 | - Preparing the Final Submission | - Reading assignment provided by instructor |
| Week 14 | - Writing Letter of Application  
- Prepare Oral Presentations | - Chapter 12  
- Guess lecture on C.Vs. |
| Week 15 | - Student Oral Presentations | |

**Notes:**
- **Assignment 4:** Writing critiques on reading assignment 1.
- **Assignment 5:** Write a formal Lab Report on the hypothetical set of data from a biochemistry lab.
- **Assignment 6:** Writing critiques on reading assignment 2.
- **Assignment 7:** Writing critiques on reading assignment 3.
- **March 3:** Term paper annotated outline
- **April 2:** First submission of the term paper
- **Chapter 3:**
- **Chapter 6:**
- **Chapter 9:**
- **Chapter 12:**
<table>
<thead>
<tr>
<th>Due dates for pamphlet Service-learning Project:</th>
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<tbody>
<tr>
<td>Jan 23: Assign groups and topics</td>
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<tr>
<td>Jan 30: Student sign up and log in WebEx</td>
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<td>Feb 18: First outline</td>
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<tr>
<td>Mar 3: Annotated outline</td>
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<td>Mar 26: First submission</td>
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<td>Apr 21: Final submission</td>
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<tr>
<th>Important University Dates</th>
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<tbody>
<tr>
<td>January 13, 2020  Classes Begin for Spring Semester</td>
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<tr>
<td>January 13, 2020  Add, Drop, and Late Registration Begins for 16- and First 8-Week. $25 fee assessed for late registrants</td>
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<tr>
<td>January 15, 2020  Deadline for Add, Drop, and Late Registration for 16- and First 8-Week Classes</td>
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<tr>
<td>January 20, 2020  Martin Luther King Jr. Day (University Closed)</td>
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<td>January 21, 2020  Deadline to Drop First 8-Week Classes with No Record</td>
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<tr>
<td>January 29, 2020  Deadline to Drop 16-Week Classes with No Record</td>
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<tr>
<td>February 21, 2020 Deadline to Drop First 8-Week Classes with a Quit (Q) or Withdraw (W)</td>
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<tr>
<td>March 6, 2020  Classes End for First 8-Week Session</td>
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<td>March 9-12, 2020  Spring Break (No Classes - Administrative Offices Open)</td>
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<td>March 13, 2020  Spring Break (University Closed)</td>
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<td>March 16, 2020  Add, Drop, and Late Registration Begins for Second 8-Week Classes $25 fee assessed for late registrants</td>
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<tr>
<td>March 16, 2020  Classes Begin for Second 8-Week Session</td>
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<tr>
<td>March 18, 2020  Deadline for Add, Drop, and Late Registration for Second 8-Week Classes</td>
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<tr>
<td>March 23, 2020  Class Schedule Published for Summer Semester</td>
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<tr>
<td>March 23, 2020  Deadline to Drop Second 8-Week Classes with No Record</td>
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<td>March 27, 2020  Deadline for Graduation Application for Ceremony Participation</td>
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<tr>
<td>Date</td>
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<tr>
<td>March 30, 2020</td>
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<td>April 1, 2019</td>
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<td>April 3, 2020</td>
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<td>April 6, 2020</td>
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<td>April 17, 2020</td>
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<td>April 24, 2020</td>
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<td>May 8, 2020</td>
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<td>May 8, 2020</td>
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<td>May 8, 2020</td>
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<td>May 9, 2020</td>
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**TECHNOLOGY REQUIREMENTS AND SUPPORT**

**Technology Requirements**
This course will use the A&M-Central Texas Instructure Canvas learning management system. We strongly recommend the latest versions of Chrome or Firefox browsers. Canvas no longer supports any version of Internet Explorer.

Logon to A&M-Central Texas Canvas [https://tamuct.instructure.com/] or access Canvas through the TAMUCT Online link in myCT [https://tamuct.onecampus.com/]. You will log in through our Microsoft portal.

Username: Your MyCT email address. Password: Your MyCT password

**Canvas Support**
Use the Canvas Help link, located at the bottom of the left-hand menu, for issues with Canvas. You can select “Chat with Canvas Support,” submit a support request through “Report a Problem,” or call the Canvas support line: 1-844-757-0953.
For issues related to course content and requirements, contact your instructor.

**Other Technology Support**
For log-in problems, students should contact Help Desk Central
24 hours a day, 7 days a week
Email: helpdesk@tamu.edu
Phone: (254) 519-5466
UNIVERSITY RESOURCES, PROCEDURES, AND GUIDELINES

Drop Policy
If you discover that you need to drop this class, you must complete a Drop Request Form [https://www.tamuct.edu/registrar/docs/Drop_Request_Form.pdf].

Professors cannot drop students; this is always the responsibility of the student. The Registrar’s Office will provide a deadline on the Academic Calendar for which the form must be completed, signed and returned. Once you return the signed form to the Registrar’s Office, you must go into Warrior Web and confirm that you are no longer enrolled. If you still show as enrolled, FOLLOW-UP with the Registrar’s Office immediately. You are to attend class until the procedure is complete to avoid penalty for absence. Should you miss the drop deadline or fail to follow the procedure, you will receive an F in the course, which may affect your financial aid and/or VA educational benefits.

Academic Integrity
Texas A&M University-Central Texas values the integrity of the academic enterprise and strives for the highest standards of academic conduct. A&M-Central Texas expects its students, faculty, and staff to support the adherence to high standards of personal and scholarly conduct to preserve the honor and integrity of the creative community. Academic integrity is defined as a commitment to honesty, trust, fairness, respect, and responsibility. Any deviation by students from this expectation may result in a failing grade for the assignment and potentially a failing grade for the course. Academic misconduct is any act that improperly affects a true and honest evaluation of a student’s academic performance and includes, but is not limited to, working with others in an unauthorized manner, cheating on an examination or other academic work, plagiarism and improper citation of sources, using another student’s work, collusion, and the abuse of resource materials. All academic misconduct concerns will be referred to the university’s Office of Student Conduct. Ignorance of the university’s standards and expectations is never an excuse to act with a lack of integrity. When in doubt on collaboration, citation, or any issue, please contact your instructor before taking a course of action.

For more information regarding the Student Conduct process, [https://www.tamuct.edu/student-affairs/student-conduct.html].

If you know of potential honor violations by other students, you may submit a report, [https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout_id=0].

Academic Accommodations
At Texas A&M University-Central Texas, we value an inclusive learning environment where every student has an equal chance to succeed and has the right to a barrier-free education. The Office of Access and Inclusion is responsible for ensuring that students with a disability receive equal access to the university’s programs, services and activities. If you believe you have a
disability requiring reasonable accommodations please contact the Office of Access and 
Inclusion, WH-212; or call (254) 501-5836. Any information you provide is private and 
confidential and will be treated as such.

For more information please visit our Access & Inclusion Canvas page (log-in required) 
[https://tamuct.instructure.com/courses/717]

**Important information for Pregnant and/or Parenting Students**
Texas A&M University-Central Texas supports students who are pregnant and/or parenting. In 
accordance with requirements of Title IX and related guidance from US Department of 
Education’s Office of Civil Rights, the Dean of Student Affairs’ Office can assist students who are 
pregnant and/or parenting in seeking accommodations related to pregnancy and/or parenting. 
Students should seek out assistance as early in the pregnancy as possible. For more 
information, please visit Student Affairs [https://www.tamuct.edu/student-affairs/index.html]. 
Students may also contact the institution’s Title IX Coordinator. If you would like to read more 
about these requirements and guidelines online, please visit the website 
[http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf].

Title IX of the Education Amendments Act of 1972 prohibits discrimination on the basis of sex 
and gender–including pregnancy, parenting, and all related conditions. A&M-Central Texas is 
able to provide flexible and individualized reasonable accommodation to pregnant and 
parenting students. All pregnant and parenting students should contact the Associate Dean in 
the Division of Student Affairs at (254) 501-5909 to seek out assistance. Students may also 
contact the University’s Title IX Coordinator.

**Tutoring**
Tutoring is available to all A&M-Central Texas students, both on-campus and online. 
Subjects tutored on campus include Accounting, Advanced Math, Biology, Finance, 
Statistics, Mathematics, and Study Skills. Tutors are available at the Tutoring Center in Warrior 
Hall, Suite 111. Tutor.com tutoring **will not offer writing support** beginning August 1, 2019, but 
will continue to offer other tutoring support.

If you have a question regarding tutor schedules, need to schedule a tutoring session, 
are interested in becoming a tutor, or have any other question, contact Academic 
Support Programs at (254) 501-5836, visit the Office of Student Success at 212F Warrior Hall, or 
by emailing studentsuccess@tamuct.edu .

Chat live with a tutor 24/7 for almost any subject from on your computer! Tutor.com is 
an online tutoring platform that enables A&M-Central Texas students to log in and receive 
online tutoring support at no additional cost. This tool provides tutoring in over 40 subject 
areas. Access Tutor.com through Canvas.

**University Writing Center**
Located in Warrior Hall 416, the University Writing Center (UWC) at Texas A&M University–Central Texas (TAMUCT) is a free workspace open to all TAMUCT students from 10:00 a.m.-5:00 p.m. Monday thru Thursday with satellite hours in the University Library Monday thru Thursday from 6:00-9:00 p.m. This semester, the UWC is also offering online only hours from 12:00-3:00 p.m. on Saturdays.

Tutors are prepared to help writers of all levels and abilities at any stage of the writing process. While tutors will not write, edit, or grade papers, they will assist students in developing more effective composing practices. By providing a practice audience for students’ ideas and writing, our tutors highlight the ways in which they read and interpret students’ texts, offering guidance and support throughout the various stages of the writing process. In addition, students may work independently in the UWC by checking out a laptop that runs the Microsoft Office suite and connects to WIFI, or by consulting our resources on writing, including all of the relevant style guides. Whether you need help brainstorming ideas, organizing an essay, proofreading, understanding proper citation practices, or just want a quiet place to work, the UWC is here to help!

Students may arrange a one-to-one session with a trained and experienced writing tutor by visiting the UWC during normal operating hours (both half-hour and hour sessions are available) or by making an appointment via WCOncle [https://tamuct.mywconline.com/]. In addition, you can email Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu if you have any questions about the UWC and/or need any assistance with scheduling.

**University Library**

The University Library provides many services in support of research across campus and at a distance. We offer over 200 electronic databases containing approximately 250,000 eBooks and 82,000 journals, in addition to the 85,000 items in our print collection, which can be mailed to students who live more than 50 miles from campus. Research guides for each subject taught at A&M-Central Texas are available through our website to help students navigate these resources. On campus, the library offers technology including cameras, laptops, microphones, webcams, and digital sound recorders.

Research assistance from a librarian is also available 24 hours a day through our online chat service, and at the reference desk when the library is open. Research sessions can be scheduled for more comprehensive assistance, and may take place on Skype or in-person at the library. Assistance may cover many topics, including how to find articles in peer-reviewed journals, how to cite resources, and how to piece together research for written assignments.

Our 27,000-square-foot facility on the A&M-Central Texas main campus includes student lounges, private study rooms, group work spaces, computer labs, family areas suitable for all ages, and many other features. Services such as interlibrary loan, TexShare, binding, and laminating are available. The library frequently offers workshops, tours, readings, and other events. For more information, please visit our Library website [http://tamuct.libguides.com/index].
OPTIONAL POLICY STATEMENTS

A Note about Sexual Violence at A&M-Central Texas
Sexual violence is a serious safety, social justice, and public health issue. The university offers support for anyone struggling with these issues. University faculty are mandated reporters, so if someone discloses that they were sexually assaulted (or a victim of Domestic/Dating Violence or Stalking) while a student at TAMUCT, faculty members are required to inform the Title IX Office. If you want to discuss any of these issues confidentially, you can do so through Student Counseling (254-501-5955) located on the second floor of Warrior Hall (207L).

Sexual violence can occur on our campus because predators often feel emboldened, and victims often feel silenced or shamed. It is incumbent on ALL of us to find ways to actively create environments that tell predators we don’t agree with their behaviors and tell survivors we will support them. Your actions matter. Don’t be a bystander; be an agent of change. For additional information on campus policy and resources visit the Title IX webpage [https://www.tamuct.edu/departments/compliance/titleix.php].

Behavioral Intervention
Texas A&M University-Central Texas cares about the safety, health, and well-being of its students, faculty, staff, and community. If you are aware of individuals for whom you have a concern, who are exhibiting concerning behaviors, or individuals causing a significant disruption to our community, please make a referral to the Behavioral Intervention Team. Referring your concern shows you care. You can complete the referral online [https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout_id=2].

Anonymous referrals are accepted. Please see the Behavioral Intervention Team website for more information [https://www.tamuct.edu/student-affairs/bat.html]. If a person’s behavior poses an imminent threat to you or another, contact 911 or A&M-Central Texas University Police at 254-501-5800.

OTHER POLICIES

SCIENCE POLICIES

Lecture courses
1. There will be no bathroom breaks allowed during any exam. Be sure that you address this issue before beginning an exam.
2. Any student needing to take an exam at a different time as rest of students due to sickness or other accommodations will receive a different version of exam. This includes sickness, special accommodations, etc....
3. All students needing special accommodations must submit an accommodation form from the Office of Access and Inclusion listing the specific accommodations.
needed. Students are responsible for scheduling their own exam times with the TAMUCT Testing Center.

4. Any student missing an exam in class for any other reason (i.e. illness, death in family, etc.) must provide documentation for missing the exam (e.g. doctor’s note, obituary notice, etc.). Exams must be made up within one week of original scheduled date, no exceptions.

Laboratory courses

1. Attendance policy: A maximum of 3 absences will be allowed; additional absences in lab will result in an “F” for the entire course, regardless of excuse.

2. Laboratory Safety training: All students are required to take the mandatory Laboratory Safety Training Module - found on in your Modules tab in CANVAS. You must take the training and bring the signed "Safety Agreement Form" to your instructor before you are allowed in lab!!! This is YOUR RESPONSIBILITY - any lab absences because you have not taken the training will be considered unexcused!

3. Laboratory Coats: Students who have laboratories in Warrior Hall (rms. 407, 410, 413) are required to purchase a laboratory coat from the TAMUCT Hanik Bookstore in Founder’s Hall. Due to the nature of chemicals used in Heritage Hall, lab coats will be provided for these laboratories.

INSTRUCTOR POLICIES.

Read these carefully as I am strict with my policies.

Grading Policy and Point Breakdown. Grades in this course will be criteria-based on a number of activities including exams, assignments, lab reports, and attendance. This means that grades will not be curved and anyone achieving a 90% or above will receive an A in this course.

Grade Dispute Policy. Grading disputes must be put in writing (with justification such as supporting statements from the text or another credible source) and given to me no earlier than 24 hours after the assignment has been returned. I will consider your request carefully, but reserve the right to adjust your grade up or down.

Late Assignments. I expect all assignments to be turned in on time. Late assignments interfere with my ability to provide timely, detailed feedback, as well as with your ability to learn and process new material. Accordingly, any unauthorized late assignment will receive a 5% reduction in grade for each day it is late. No assignments will be accepted after it has been graded and returned.

Exams. The exams will be a mixture of multiple choices and short answers, designed to provoke reflection, critical thought, and application of knowledge. You are encouraged to prepare for the exam by reviewing reading materials, outlining a draft of a response, and discussing these thoughts with your peers. You will then demonstrate your individual, integrated thoughts on the topic in a closed-book exam during the class period.

Missed exams. If you know you will miss an exam, please contact me BEFORE the exam. I will gladly give make-up exams if the student has an unavoidable reason for missing the exam (i.e. death in the family, severe illness). Keep in mind that I will expect documentation of your reason for missing the exam (e.g. doctor’s note, obituary notice). Exams must be made up within a week of the original scheduled date, no exceptions regardless of excuse.

What I expect of you. To get the most out of this class, you are expected to conduct yourself in
a professional manner, which includes contributing to class discussions, being punctual, and notifying me of absences in advance.

**Class Attendance.** I expect that you attend each class session and arrive on time. If an unavoidable situation arises that prevents you from attending class, I expect that you also promptly contact me to discuss the missed material and get the notes from a classmate. I will not distribute my notes to students as they are often abbreviated and do not contain the detail needed to sufficiently understand the material.

**What you can expect of me.** You can expect me to start and end class on time, be available through office hours, e-mail, and by appointment, be responsive to student suggestions for course improvement, answer questions to the fullest extent possible and/or direct you to appropriate resources, return graded assignments and exams within a reasonable time frame, and treat you with respect as future colleagues.

**Discussion.** The topics in this class encompass a diversity of issues that merit in-depth thought and discussion. Since individuals will be expressing their opinions, I expect that you respect others’ contributions, as you would want them to do for you.

**Credits and Workload expectations.** For undergraduate courses, one credit is defined as equivalent to an average of two hours of learning effort per week (over a full semester) necessary for an average student to receive an average grade for the course. A student taking a four-credit class that meets for four hours a week should expect to spend an additional eight hours a week outside the classroom in order to earn an average grade.

**Class Structure.** Classes will involve a balance of active lecture and engaging learning activities. I believe that students learn the theories and concepts much better when they have an active role. I know that this may be new to some of you, but please keep an open mind and I know that you will get more out of this class because of it.

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## Oral Presentation Rubric

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<td><strong>Organization and Preparation</strong></td>
<td>Clearly outlines structure of presentation. Maintains clear focus on topic. Effectively includes smooth transitions to connect key points. Ends with logical, effective, and relevant conclusion.</td>
<td>Outlines structure of presentation. Maintains focus on topic. Includes transitions to connect key points. Ends with coherent conclusion based on evidence.</td>
<td>Incompletely outlines structure of presentation. Somewhat maintains focus on topic. Includes some transitions to connect key points. Ends with a conclusion based on evidence.</td>
<td>Does not outline structure of presentation. Does not establish or maintain focus on the topic. Uses ineffective transitions that rarely connect points. Ends without a conclusion.</td>
<td>10%</td>
</tr>
<tr>
<td><strong>Quality of Graphics/Slides</strong></td>
<td>Consistent use of formatting: (fonts, sizes, color, punctuation...). Correct use of grammar with rich and varied sentence structures. Transition/animation/sound used effectively and smoothly.</td>
<td>Consistent use of formatting: (fonts, sizes, color, punctuation...). Correct use of grammar. Transition/animation/sound used effectively or smoothly.</td>
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<td><strong>Questions and Answers</strong></td>
<td>Demonstrates extensive knowledge of the topic by responding confidently, precisely, and appropriately to all audience questions and feedback.</td>
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<td>Demonstrates some knowledge of the topic by responding accurately and appropriately to some questions and feedback.</td>
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<td><strong>Timing of Presentation</strong></td>
<td>Keeps time within ± 1 minute.</td>
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<td>Keeps time within ± 5 minutes or more.</td>
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CHEM 3380–Research Methods

Syllabus Contract

Directions:

• First, read the syllabus.
• Second, read the statement below to confirm your personal reading and understanding of the contents of the syllabus.
• Third, provide confirmation by printing the document and providing your signature and date of completion in the space provided below.
• Last, submit this contract to me. Note that your grade for the first assignment will not be calculated until this contract is received.

I have received a copy of the syllabus. I have read and understand the policies of this course as stated in the syllabus.

Print Name_________________________________________

Signature_____________________________________________

Date_______________________________________________