



UT Tyler

DEPARTMENT OF
CHEMISTRY & BIOCHEMISTRY

Chemical Literature

CHEM 4190 Syllabus

Spring 2026

The University of Texas at Tyler
3900 University Blvd.
Tyler, TX 75799

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Meeting Times and Dates

Semester runs from Jan 12 to May 2

Section	Time	Room	Instructor
001	Wed 12:20—1:15 pm	RBS 1031	Mr. Jason DiStefano



Instructor Contact Information

Instructor	Office	Office Hours	Email	Phone
Mr. Jason DiStefano Lecturer	RBS 3006	Wed 2:00pm—4:00pm Fri 1:00pm—4:00pm	jdistefano@uttyler.edu	903.566.7185

Course Description

Chemistry is an experimental science. Chemical knowledge and results have resulted from experimental observations and studies made by thousands of scientists over many centuries. Communicating chemical information effectively is key for the scientific community to advance. In Chemical Literature (CHEM 4190), students will learn to interpret and disseminate chemical information by researching a current literature topic and presenting it at a poster session.

Prerequisite: Senior standing.

Course Overview

This course is the first of a 2-semester capstone sequence for the B.S. degrees in Chemistry and Biochemistry. It is designed to teach you how to perform one of the most important jobs of any chemist; the interpretation and dissemination of chemical information. Scientists communicate the fruits of their labor mostly in written form (i.e. scientific articles, textbooks, short communications, and reviews). Conferences and other forms of verbal communication are also vitally important. Success in such endeavors is an important part of getting other scientists to take your ideas and results seriously. Good communications skills are also important to obtain and maintain a job. Thus, any training to becoming a successful chemist must contain significant literature and presentation components, and therefore will be the focus of this course.

Student Learning Outcomes

By the end of this course, you should be able to:

- Demonstrate the ability to acquire, evaluate, and integrate information from the chemical literature.
- Prepare a clear, concise abstract.
- Prepare a formal resume and/or curriculum vitae (CV)
- Discuss a chosen topic with a faculty mentor
- Effectively organize and present the scientific information verbally and in writing at a poster session.

In addition to the core objectives, students will also be expected to:

- Attend lectures on science literacy and proper research of chemical literature
- Access the chemical literature and selecting a topic
- Participate in the faculty mentorship program
- Prepare a one-paragraph abstract for the topic to be presented
- Prepare a scientific poster and present it at the poster session

Materials Required for the Course

- **Computer Access:** with PowerPoint, Word, Publisher, Zoom, or similar software suitable for the course.
- **Communication:** This course will be hosted on UT Tyler's Canvas server. You may access your Canvas account online at <https://www.uttyler.edu/canvas>. This site will contain a significant amount of information that will help you in this course in addition to being the medium through which you may access your current grade.
I will mostly contact you through Canvas, so be sure you have your account to receive alerts. I am not responsible for you not receiving announcements pertaining to this course. I will also occasionally send information to you via email. You will need to make sure you are checking your Patriots email account regularly.
- A curious mind and a good attitude

Topic Selection

- Your topic needs to have a strong chemical or biochemical focus in terms of synthesis, characterization, and/or biological effects. It is HIGHLY recommended that this topic comes from a reputable, peer-reviewed journal. Your instructor/mentor can help guide you, but don't wait until the last moment. Pick a topic you are interested in, not just one that is easy. If you are not excited about your topic, how can you expect anyone else to be?
- **Take pride in your presentation.** One of the main purposes of this course is for you to demonstrate what you have learned. Not taking this course seriously will not only hurt your grade in this course, but it may also have a negative impact on letters of recommendation.
- Your poster topic must come from one main article that has been recently published (within 10 years). Furthermore, this main article must be from one of the preapproved journals. Your instructor will provide a list of pre-approved journal that may be used for this course.

Course Grading

Your overall course grade will tentatively be based on the 90/80/70/60 percentage scale, but it may be adjusted based upon your instructor's judgment of the overall class performance. The weighted averages for each assignment is shown below.

Poster & Presentation:

The main focus of this course is to teach you how to research the literature in order to design and present a scientific poster of someone else's research. The scientific poster is an excellent way for a researcher to share that most recent findings of their project. It also provides the scientific community the opportunity to observe the latest research amongst multiple disciplines and topics in one session meeting. Throughout the semester, you will build the skills needed to design a high quality, professional poster. You will then present that poster in the same manner that is frequently done at local, regional, and national meetings such as ACS.

Assignments:

As stated above, this course will teach you how to design a high quality, professional poster that are frequently used as a form of communication with the scientific community. I understand that this may be your first poster to develop in your scientific career. Therefore, we will have weekly assignments designed to guide you through the development process. These assignments will help you build skills in efficient literature searching, dissecting articles, writing scientifically, and developing a scientific poster. Some of you may decide to join the workforce immediately after graduation, so we will also focus on resume and interviewing skills as well.

Attendance:

This is a presentation based course that relies heavily of participation. Throughout the course, we will have guest speakers and you will have to present progress updates. Furthermore, this is a dynamic course that requires student interaction. Therefore, it is vital that you attend each meeting.

Mentorship Program:

Mentorship is essential because it provides guidance, support, and knowledge sharing that fosters personal and professional growth. Your assigned mentor is committed to help you navigate this challenging process of understanding the chemistry and communicating the science. They also help build confidence and develop skills, while offering insights from their own experiences. This relationship accelerates learning, expands networks, and empowers the student to achieve their goals and unlock their potential. You are required to meet with your mentor on three separate occasions to be approved for final presentation. Completion of the program is also worth 15% of your overall grade.

Assignment Past Due Date Policy:

All due dates and/or times are "set in stone" and nonnegotiable (unless unforeseen circumstances require changes). Assignments can be turned in after the due date but will incur a 20% per business day grade reduction. This reduction occurs immediately after the due date and time. Subsequent reductions occur every 24 hours after the due date and time. Weekend days (Saturday and Sunday) do not count in the grade reduction.

****All assignments are due by midnight the day before the class meeting.****

The grades for this course will be weighted as follows:

50%	Poster & Presentation
20%	Assignments
20%	Mentor Meetings
10%	Attendance
100%	Total

Deadlines:

While the poster and presentation is the main focus of this course and your overall grade, the secondary focus is building time management and professional skills. Regardless of your plans after graduation, (grad school, post-baccalaureate program, workforce, etc.), your time management and meeting deadlines are crucial for your success. Your employer/advisor will quickly replace you if you fail to meet project deadline or frequently turn work in late. Therefore, meeting assignment/project deadlines will be assessed in your final course grade. See the section below on submitting work late.

Dropping the Course:

The last day to withdraw from the course with an automatic grade of "W" is listed on the schedule. Think carefully before making this decision because this is a senior level course and a prerequisite for Seminar. Before dropping the course, you should consult with your instructor to examine all of your options.

Course Schedule

<u>Day:</u>	<u>Class Schedule</u>
Jan 14	Introduction to course, syllabus, schedule, Science Literature & Communication
Jan 21	Instructor Presentation: <i>Searching the Literature</i>
Jan 28	Student Presentations: Literature Search Due: Five articles of interest
Feb 4	Instructor Presentation: <i>Designing and Presenting a Poster; Citing Literature; Mentor Assignments</i>
Feb 11	Student Presentations: Poster Topic Due: Main article plus 5 supplemental articles
Feb 18	Instructor Presentation: <i>Resumes, CV, and Careers. Oh My!</i>
Feb 25	In-Class Activity: Poster Critiques Due: Literature Summary Report—main article only
Mar 4	Instructor Presentation: <i>Developing Abstracts</i> Due: Mentor Meeting Sign-off 1
Mar 11	Spring Break—Class will not meet this week
Mar 18	In-Class Activity: Poster Workshop Due: Abstract & Poster Draft 1
Mar 25	ACS National Convention Out-Class Activity: Poster Workshop Due: Mentor Meeting Sign-off 2, Poster Draft 2
Apr 1	In-Class Activity: Poster Workshop Due: Poster Draft 3
Apr 8	In-Class Activity: Mock Poster Session Due: Mentor Meeting Sign-off 3, Final Draft, Print: 8 1/2 x 11 Poster
Apr 15	Class will not meet this week. Print and prepare for Poster Presentation
Apr 16	Poster Presentation (<u>this is not during regularly scheduled class</u>) Due: Final Poster Copy (must upload to Canvas for credit)
Apr 22	Class will not meet this week. Study for other classes
Apr 29	Final Exam Week — Class will not meet this week

****All assignments are due by midnight the day before the class meeting.****

Note: the right to substitute or switch dates, as required by unforeseen circumstances, is reserved.

University Policies & Important Information

Withdrawing from Class

Students may withdraw (drop) from this course using the [Withdrawal Portal](#). Withdrawing (dropping) this course can impact your Financial Aid, Scholarships, Veteran Benefits, Exemptions, Waivers, International Student Status, housing, and degree progress. Please speak with your instructors, consider your options, speak with your advisor, and visit the One-Stop Service Center (STE 230) or email enroll@uttyler.edu to get a complete review of your student account and the possible impacts to withdrawing. We want you to make an informed decision. UT Tyler faculty and staff are here for you and often can provide additional support options or assistance. Make sure to carefully [read the implications for withdrawing from a course and the instructions](#) on using the [Withdrawal portal](#).

Texas law prohibits students from dropping more than six courses during their entire undergraduate career*. The six courses dropped includes those from other 2-year or 4-year Texas public colleges and universities. Consider the impact withdrawing from this class has on your academic progress and other areas, such as financial implications. We encourage you to consult your advisor(s) and Enrollment Services for additional guidance. **CAUTION #1:** Withdrawing before census day does not mean you get a full refund. Please see the [Tuition and Fee Refund Schedule](#). **CAUTION #2:** All international students must check with the [Office of International Programs](#) before withdrawing. All international students are required to enroll full-time for fall and spring terms. **CAUTION #3:** All UT Tyler Athletes must check with the Athletic Academic Coordinator before withdrawing from a course. **CAUTION #4:** All veterans or military-affiliated students should consult with the [Military and Veterans Success Center](#).

* Students who began college for the first time before 2007 are exempt from this law.

Final Exam Policy

Final examinations are administered as scheduled. If unusual circumstances require that special arrangements be made for an individual student or class, the Dean of the appropriate college, after consultation with the faculty member involved, may authorize an exception to the schedule. Faculty members must maintain student final examination papers for a minimum of three months following the examination date.

Incomplete Grade Policy

If a student, because of extenuating circumstances, is unable to complete all of the requirements for a course by the end of the semester, then the instructor may recommend an Incomplete (I) for the course. The "I" may be assigned in place of a grade *only when all of the following conditions are met*: (a) the student has been making satisfactory progress in the course; (b) the student is unable to complete all coursework or final exam due to unusual circumstances that are beyond personal control and are acceptable to the instructor, and (c) the student presents these reasons before the time that the final grade roster is due. The semester credit hours for an Incomplete will not be used to calculate the grade point average.

The student and the instructor must submit an Incomplete Form detailing the work required and the time by which the work must be completed to their respective department chair or college dean for approval. The time limit established must not exceed one year. Should the student fail to meet all of the work for the course within the time limit, then the instructor may assign zeros to the unfinished work, compute the course average for the student, and assign the appropriate grade. If a grade has yet to be assigned within one year, then the Incomplete will be changed to an F, or NC. If the course was initially taken under the CR/NC grading basis, this may adversely affect the student's academic standing.

Grade Appeal Policy

Disputes regarding grades must be initiated within sixty (60) days from the date of receiving the final course grade by filing a Grade Appeal Form with the instructor who assigned the grade. A grade appeal should be used when the student thinks the final course grade awarded does not reflect the grades earned on assessments or follow the grading scale as documented in the syllabus. The student should provide the rationale for the grade appeal and attach supporting document about the grades earned. The form should be sent via email to the faculty member who assigned the grade. The faculty member reviews the rationale and supporting documentation and completes the instruction section of the form. The instructor should return the form to the student, even if a grade change is made at this level. If the student is not satisfied with the decision, the student may appeal in writing to the Chairperson of the department from which the grade was issued. In situations where there is an allegation of capricious grading, discrimination, or unlawful actions, appeals may go beyond the Chairperson to the Dean or the Dean's designee of the college from which the grade was issued, with that decision being final. The Grade Appeal form is found in the [Registrar's Form Library](#).

NOTE: The Grade Appeal Form is different from the Application for Appeal form submitted to the Student Appeals Committee, which does not rule on grade disputes as described in this policy.

Students on an F-1 Visa

To remain in compliance with Federal Regulations requirements you must do the following:

- Traditional face-to-face classes: Attend classes on the regular meeting days/times.
- Hybrid Classes: Attend all face-to-face classes convened by the instructor according to the schedule set for your specific course.
- Online course: Only one online course can count toward your full-time enrollment. Students are expected to be fully engaged and meet all requirements for the online course.

Campus Carry

We respect the right and privacy of students who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at <http://www.uttyler.edu/about/campus-carry/index.php>.

University Policies & Important Information

Disability/Accessibility Services

In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA), the University of Texas at Tyler offers accommodations to students with learning, physical, and/or psychological disabilities. If you have a disability, including a non-visible diagnosis such as a learning disorder, chronic illness, TBI, PTSD, ADHD, or a history of modifications or accommodations in a previous educational environment, you are encouraged to visit <https://hood.accessiblelearning.com/UTTyler/> and fill out the New Student application. The Student Accessibility and Resources (SAR) office will contact you when your application has been submitted and an appointment with the Assistant Director Student Accessibility and Resources/ADA Coordinator. For more information, including filling out an application for services, please visit the SAR webpage at <https://www.uttyler.edu/disability-services>, the SAR office located in the Robert Muntz Library, LIB 460, email saroffice@uttyler.edu, or call 903.566.7079."

Military Affiliated Students

UT Tyler honors the service and sacrifices of our military-affiliated students. If you are a student who is a veteran, on active duty, in the reserves or National Guard, or a military spouse or dependent, please stay in contact with your faculty member if any aspect of your present or prior service or family situation makes it difficult for you to fulfill the requirements of a course or creates disruption in your academic progress. It is important to make your faculty member aware of any complications as far in advance as possible. Your faculty member is willing to work with you and, if needed, put you in contact with university staff who are trained to assist you. The [Military and Veterans Success Center \(MVSC\)](#) has campus resources for military-affiliated students. The MVSC can be reached at MVSC@uttyler.edu or via phone at 903.565.5972.

Academic Honesty and Academic Misconduct

The UT Tyler community comes together to pledge that "Honor and integrity will not allow me to lie, cheat, or steal, nor to accept the actions of those who do." Therefore, we enforce the [Student Conduct and Discipline policy](#) in the Student Manual Of Operating Procedures (Section 8).

FERPA

UT Tyler follows the Family Educational Rights and Privacy Act (FERPA) as noted in [University Policy 5.2.3](#). The course instructor will follow all requirements to protect your confidential information.

Absence for Official University Events or Activities

This course follows the practices related to [Excused Absences for University Events or Activities](#) as noted in the Catalog.

Absence for Religious Holidays

This course follows the practices related to [Excused Absences for Religious Holy Days as noted in the Catalog](#).

Absence for Pregnant Students

This course follows the requirements of Texas Laws SB 412, SB 459, SB 597/HB 1361 to meet the needs of pregnant and parenting students. Part of the supports afforded pregnant students includes excused absences. Faculty who are informed by a student of needing this support should make a referral to the Parenting Student Liaison. NOTE: Students must work with the Parenting Student Liaison in order to receive these supports. Students should reach out to the Parenting Student Liaison at parents@uttyler.edu and also complete the [Pregnant and Parenting Self-Reporting Form](#).

Recording of Class Sessions

Class sessions may be recorded by the instructor for use by students enrolled in the course. Recordings that contain personally identifiable information or other information subject to FERPA shall not be shared with individuals not enrolled in the course unless appropriate consent is obtained from all relevant students. Class recordings are reserved only for the use of students enrolled in the course and only for educational purposes. Course recordings should not be shared outside of the course in any form without express permission.

Artificial Intelligence Statement

UT Tyler is committed to exploring and using artificial intelligence (AI) tools as appropriate for the discipline and task undertaken. We encourage discussing AI tools' ethical, societal, philosophical, and disciplinary implications. All uses of AI should be acknowledged as this aligns with our commitment to honor and integrity, as noted in UT Tyler's Honor Code. Faculty and students must not use protected information, data, or copyrighted materials when using any AI tool. Additionally, users should be aware that AI tools rely on predictive models to generate content that may appear correct but is sometimes shown to be incomplete, inaccurate, taken without attribution from other sources, and/or biased. Consequently, an AI tool should not be considered a substitute for traditional approaches to research. You are ultimately responsible for the quality and content of the information you submit. Misusing AI tools that violate the guidelines specified for this course is considered a breach of academic integrity. The student will be subject to disciplinary actions as outlined in UT Tyler's Academic Integrity Policy. *Refer to the About This Course section of the UT Tyler Syllabus Module for specific information on appropriate use of AI in your course(s).*

For this course, AI is not permitted in this course at all. I expect all work students submit for this course to be their own. To best support your learning, you must complete all graded assignments by yourself to assist in your learning. This exclusion of other resources to help complete assignments includes artificial intelligence (AI). Refrain from using AI tools to generate any course context (e.g., text, video, audio, images, code, etc.) for an assignment or classroom assignment.

Student Resources

Resources to assist you in the course

- [UT Tyler Student Accessibility and Resource \(SAR\) Office](#) (provides needed accommodations to students with document needs related to access and learning)
- [UT Tyler Writing Center](#)
- [The Mathematics Learning Center](#)
- [UT Tyler PASS Tutoring Center](#)
- [UT Tyler Supplemental Instruction](#)
- [Upswing \(24/7 online tutoring\) - covers nearly all undergraduate course areas](#)
- [Robert Muntz Library](#) and [Library Liaison](#)
- [Canvas 101](#) (learn to use Canvas, proctoring, Unicheck, and other software)
- Digital Support Toolkit (for supported courses only. Students are automatically enrolled in the toolkit for supported courses)
- LIB 422 -- Computer Lab where students can take a proctored exam
- [The Career Success Center](#)
- [UT Tyler Testing Center](#)
- [Office of Research & Scholarship Design and Data Analysis Lab](#)

Resources available to UT Tyler Students

- [UT Tyler Counseling Center](#) (available to all students)
- [MySSP App](#) (24/7 access to Student Support Program counseling through phone or chat and online wellness resources available in a variety of languages)
- [Student Assistance and Advocacy Center](#)
- [Military and Veterans Success Center](#) (supports for our military-affiliated students)
- [UT Tyler Patriot Food Pantry](#)
- [UT Tyler Financial Aid and Scholarships](#)
- [UT Tyler Student Business Services](#) (pay or set up payment plans, etc.)
- [UT Tyler Registrar's Office](#)
- [Office of International Programs](#)
- [Title IX Reporting](#)
- [Patriots Engage](#) (available to all students. Get engaged at UT Tyler.)