

ENVS 489  
Water Quality  
Courses Syllabus: Fall 2025

Instructor: Dr. Lin Guo

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Phone: 903-886-5371

Classroom: online

Office location: Online

Office hrs: M-F 8 am-5 pm

Fax: 903-886-5997

Time: 8/25/25-12/12/25

**Text Book:** No book is required. The links to teaching materials are provided in D2L

**Course Description:** Water Quality is a course about the design of engineered environmental systems for water and wastewater treatment in domestic or industrial applications. Topics include water quality standard; water chemistry; chemical, physical and biological processes, theory of processes used to treat water and wastewater; applications of theory to design and operate treatment systems.

**Instructional Method:** The course will be online.

**Learning Objectives:** Upon completion of this course you should be able to:

1. Know the main water pollutants and its effect on human health and environment;
2. Know the main water pollutants and its effect on human health and environment;
3. Understand the regulations and policies to manage water pollution;
4. Have a knowledge of technologies used to control and remove water pollutants

<b>Evaluations:</b>	1 Exam	100 points	A $\geq$ 90%
	1 Term-paper	100 points	B $\geq$ 80%
	1 small article	100 points	C $\geq$ 70%
	Total	300 points	D $\geq$ 60%

**Term-paper:** Select a topic related to water pollution (e.g; pollutants of emerging concerns; groundwater pollution, ocean pollution, etc) and write a term paper; In this paper, you will need to introduce the basic information and water pollution control technology development related to the topic; Use 12 pt font, 1.5 line spacing; Number your pages (more than 4 pages); Due on or before 5 pm on **Dec 1**;

**Small article:** you need to read find journal articles from library, read it and submit a brief review. The review should be typed (12 pt font, 1.5 line spacing) and include two full paragraphs. First, conclude the opinions of the article (about one half to one page). In the second paragraph (about one half to one page), please critique of the article with substantive or evidence-driven arguments for or against the opinions of the article. **The topics of the articles will be related to water shortage.** The paper is due on or before 5 pm on **Sep 30**. Any paper that is not properly referenced will receive a zero.

**All the assignments are expected to be submitted on time. If you are not able to submit your assignment before deadline, please discuss the situation with the instructor in advance.**

**Topics:** Week 1: Water Quality Standard

Week 2: The Use of Water

Week 3: Water of the USA

Week 4: Introduction to Criteria

Week 5: Human health and Water Quality

Week 6: Biological Criteria

Week 7: Water Quality for Toxics

Week 8 Nutrients Criteria

Week 9: NPDES Program Review

Week 10: Permit related to Water Quality

Week 11: Clean Water Act section 401

Week 12: Monitoring and Assessment

Week 13 Wetland and Water Quality

Week 14: Total Maximum daily load

Week 15: Tools for Achieving water Quality Standards

Week 16: Exam

## **Attendance**

**The teaching/learning materials will be posted in D2L. Students can access to those materials anytime. However, all the assignments are expected to be finished on time. Again, if you have**

troubles to do those assignments on time, please discuss the situation with the instructor timely.

#### **University Procedures:**

**“East Texas A&M requires the use of face-coverings in all instructional and research classrooms/laboratories. Exceptions may be made by faculty where warranted. Faculty have management over their classrooms. Students not using face-coverings can be required to leave class. Repetitive refusal to comply can be reported to the Office of Students’ Rights and Responsibilities as a violation of the student Code of Conduct. “**

**“Students should not attend class when ill or after exposure to anyone with a communicable illness. Communicate such instances directly with your instructor. Faculty will work to support the student getting access to missed content or completing missed assignments.”**

#### **Students with Disabilities:**

The Americans with Disabilities Act (ADA) prohibits discrimination against people with disabilities in employment, transportation, public accommodation, communications, and governmental activities.

If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services, East Texas A&M University

Gee Library- Room 132

Phone (903) 886-5150 or (903) 886-5835 Fax (903) 468-8148 Email: Rebecca.Tuerk@tamuc.edu

Website: Office of Student Disability Resources and Services

<http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/>

#### **ETAMU Attendance:**

For more information about the attendance policy please visit the Attendance webpage and Procedure

13.99.99.R0.01. <http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx>

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf>

#### **Academic Integrity:**

Students at East Texas A&M University are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

Undergraduate Academic Dishonesty 13.99.99.R0.03

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

Graduate Student Academic Dishonesty 13.99.99.R0.10

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf>

**Nondiscrimination Notice:**

East Texas A&M University will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

**Student Conduct:**

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the Student Guidebook.

<http://www.tamuc.edu/admissions/registrar/documents/studentGuidebook.pdf>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: Netiquette <http://www.albion.com/netiquette/corerules.html>

**Early Intervention for First Year Students:**

Early intervention for freshmen is designed to communicate the University's interest in their success and a willingness to participate fully to help students accomplish their academic objectives. The university through faculty advisors and mentors will assist students who may be experiencing difficulty to focus on improvement and course completion. This process will allow students to be knowledgeable about their academic progress early in the semester and will provide faculty and staff with useful data for assisting students and enhancing retention. Grade reports will be mailed by the end of the sixth week of the semester.

**Campus carry rules:**

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in East Texas A&M University buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and University Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations. For a list of locations, please refer to

(<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>) and/or consult your event organizer). Pursuant to PC 46.035, the open carrying of handguns is prohibited on all East A&M campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

## **Technology Requirement**

### **D2L Access and Log in Information**

This course will be facilitated using D2L, the learning management system used by East Texas A&M University. To get started with the course, go to myLeo, then select Apps, and then select myleo online (D2L Brightspace).

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or [helpdesk@tamuc.edu](mailto:helpdesk@tamuc.edu).

If you are having technical difficulty with any part of D2L Brightspace, please contact Brightspace Technical Support at 1-877-325-7778.

### **Interaction with Instructor Statement**

If you have questions pertaining to the content of this course, please contact me via email. Generally, emails will be answered within 24 hrs. If I can not answer emails on time, I will let you know in advance.

### **AI Statement**

East Texas A&M University acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism).

Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources.

13.99.99.R0.03 Undergraduate Academic Dishonesty

<https://inside.tamuc.edu/aboutus/policiesproceduresstandardsstatements/rulesprocedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

13.99.99.R0.10 Graduate Student Academic Dishonesty

<https://inside.tamuc.edu/aboutus/policiesproceduresstandardsstatements/rulesprocedures/13students/graduate/13.99.99.R0.10.pdf>