

The University of Texas at Tyler

School of Education

ELED 4314 - Methods of Teaching Science

Instructor: Patricia Davis

Office : TBD

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Office Hours: TBD : Available M/W/F via zoom

Day and Time of Course 6:35 - 7:55 PM Thursday-Via Zoom

Course Catalog Description:

This course provides a foundation for teaching science including biological, earth, and physical sciences in the elementary classroom.

Assessments:

Course Requirements Weight (percent of final grade)

Class Participation (including attendance/peer review/field trips)	30%
Inquiry Lesson Plans	30%
On-line Activities	20%
Final Exam/Portfolio	20%

A = 90-100% of total points

B = 80-89% of total points

C = 70-79% of total points

D = 60-69% of total points

F = 59% or below of total points

Student Learning Outcomes:

This course is designed to prepare you to teach science. To achieve this goal, you will have the opportunity to explore science as a way of knowing the world and as a tool for problem solving. We will be actively engaged in doing science as well as talking and reading about science. We will be exploring science as it relates to the formal classroom setting and the informal settings outside the classroom. We will also be examining science as it relates to and integrates with other subject areas.

Expectations:**Class Participation:**

This course is designed as a face-to-face format as well as an online meeting date. These dates are flexible and may be adjusted to accommodate course objectives. You should assume we are meeting every week unless you are notified by your instructor of an online meeting. Discussions need to be completed before our face-to-face class time.

This course utilizes small-group learning activities, whole-class discussions, demonstrations, and outside-of-school activities to present science content to will assist in successful passing of the EC-6 content test. The outside-of-class experiences include working with small groups of students, completing assignments, and visiting field trip sites that would be useful in reinforcement of science content knowledge. Regular attendance is very important since much of what we have to learn will be experienced in the college classroom. Face-to-face classes begin promptly at the scheduled class time. Please e-mail me before class if you plan on being absent. Please allow up to 48 hours for response to an email. Due to our face-to-face time being on Tuesdays, I will be publishing the upcoming modules on Saturdays in order to give you time to read over it before class. There will be weekly discussion post, it is imperative that you share your thought/concerns before our Tuesday class so I have time to read/review your post to help with any misconceptions.

Attendance:

This course is part of your professional practice. You are expected to attend every face-to-face class meeting. Course objectives and performance outcomes cannot be met unless you attend class and participate in class activities. If you are absent for an extended period of time, you should make arrangements to explore options such as retaking the course or taking an incomplete grade. If you miss more than two in-class periods, you will need to make an appointment with the instructor for a possible Disposition Conference. If you are going to be absent for an exam, you must contact the instructor on or before the scheduled time the exam is to be given. A sign in sheet will be available the first 15 minutes of the class. Entrance after 2:15 will have to be signed in with the professor. You are responsible for all information given in class, online, and in the syllabus. Upcoming due dates will be written on the board at each class. They supersede the syllabus or Canvas. Read assigned articles prior to each class meeting. You are responsible for this information on tests as well as discussions during class participation.

Additional Required Supplies: N/A**Related Required Readings**

Texas Education Agency (TEKS) – <http://ritter.tea.state.tx.us/rules/tac/chapter112/ch112a.html>

The Texas Higher Education Coordinating Board College and Career Readiness Standards –
College and Career Readiness Standards

<http://reportcenter.highered.texas.gov/agency-publication/miscellaneous/crs-tx-ccrs-final-2009/>

Texas Educator Standards

[https://texreg.sos.state.tx.us/public/readtac\\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&p_g=1&p_tac=&ti=19&pt=2&ch=14 9&rl=1001](https://texreg.sos.state.tx.us/public/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&p_g=1&p_tac=&ti=19&pt=2&ch=14 9&rl=1001)

Class Web Sites

<http://www.BIE.org>

<http://www.Learner.org>

<http://www.edutopia.org>

<http://essea.strategies.org/>

<http://www.globe.gov>
<https://www.teachingchannel.org/>
<http://www.teachertube.com/>

Additional selected readings will be provided by the instructor or through the NSTA Learning Center

Course Policies and Guidelines:

Mobile Devices (e.g. iPads, Cell Phones)/Laptops:

All electronic devices need to be set to silent mode during class time. Devices may be used for class activities ONLY.

Laptops will enhance your class experience but should be closed unless needed during the activity.

Assignment Submission:

For written assignments a “page” is defined as:

- 8½” x 11” paper
- Times New Roman or Arial 12-point font
- Double-spaced (unless otherwise directed)
- 1-inch margin on all sides.
- Put page numbers on the top right-hand side.
- Put your name, title of the assignment and date submitted on your paper.

Papers that do not meet these specifications will not be accepted. With respect to format and style, your paper should conform to the 6th edition APA Manual.

Late Work: Assignments and projects are expected to be handed in on time. **An assignment will be considered late if it is not turned in the day it is due.** Assignments are expected to be dropped in the assignment box on Canvas even if you are not in class. You may turn in your assignment early. Late assignment policy was referenced in the grading session. Assignments are posted on the course syllabus. Due dates will be announced in class.

You are responsible for all information given in zooms, online, and in the syllabus.

Read assigned articles prior to each class meeting.

You are responsible for this information on tests as well as during class participation. Criteria for all assignments will be available in class and posted online unless otherwise notified by the instructor.

Canvas– You are responsible for enrolling on Canvas prior to the second class meeting and monitoring the course site regularly for course information. Assignments will be turned in through the assignment tab in Canvas. A link to the NSTA Learning Center will be available within the Canvas environment. Safe Assign is a tool that will be used to check a document for plagiarism. The tool provides feedback as to whether or not the text in a document is a close match with other documents on the Internet, in journal databases, and submissions to Canvas. If a student is caught plagiarizing, a grade of zero will be given as well as a disposition for cheating.

Edpuzzle- You will be watching all your content videos through edpuzzle. This is a great tool for teachers, and I use it in all my classes. Join our edpuzzle class by clicking on the link below.

<https://edpuzzle.com/join/hagrutn>

Withdraw date: November 4, 2022

Dispositions - All students in the UT Tyler Teacher Preparation Program must adhere to the professional behaviors outlined in the UT Tyler School of Education Dispositions. These dispositions are listed at the following website: <http://www.uttyler.edu/education/documents/Dispositions.pdf>

UNIVERSITY POLICIES

UT Tyler Honor Code

Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.

For a full list of university policies including information related to the topics listed below, click [here](#).

- Students Rights and Responsibilities
- Campus Carry
- Tobacco-Free University
- Grade Replacement/Forgiveness and Census Date Policies
- State-Mandated Course Drop Policy
- Disability Services
- Student Absence due to Religious Observance
- Student Absence for University-Sponsored Events and Activities
- Social Security and FERPA Statement
- Emergency Exits and Evacuation
- Student Standards of Academic Conduct

UT Tyler Resources for Students:

- UT Tyler Writing Center (903.565.5995), writingcenter@uttyler.edu, <http://www.uttyler.edu/writingcenter/>
- UT Tyler Tutoring Center (903.565.5964), tutoring@uttyler.edu, <https://www.uttyler.edu/tutoring/>
- The Mathematics Learning Center, RBN 4021, This is the open access computer lab for math students, with tutors on duty to assist students who are enrolled in early-career courses.
- UT Tyler Counseling Center (903.566.7254) <https://www.uttyler.edu/counseling/>

[University Guidelines, Links and Policies](#)

College of Education and Psychology (CEP) Vision and Mission

Vision: The College of Education and Psychology is nationally recognized and respected for its academic programs and opportunities. It is a center of academic excellence, scholarly inquiry, and public service. The College prepares leaders to meet the critical challenges of the 21st Century through productive contributions to local and global communities and toward individual and cultural equity.

Mission: The mission of the College of Education and Psychology is to provide a positive environment that fosters the acquisition of knowledge and skills. The mission is individually and collectively realized through a community of scholars that contributes to knowledge through scholarly inquiry; organizes knowledge for application, understanding and communication; and provides leadership and service. We affirm and promote global perspectives that value individual and cultural diversity to enhance learning, service, and scholarship.

UT TYLER'S SCHOOL OF EDUCATION STANDARDS FOR EDUCATOR PREPARATION PROGRAMS

Texas Education Standards: The School of Education are committed to teaching and implementing the Texas Educator Standards at the highest level. The School of Education faculty use the Texas Education Standards, along with the Interstate New Teacher Assessment and Support Consortium (InTASC) standards used by educator preparation programs throughout the United States.

The list of [Texas Education Standards](#) can be accessed [here](#).

Access the [Code of Ethics and Standard Practices for Texas Educators](#).