COURSE SYLLABUS
ELED 4314
Spring 2018
METHODS OF TEACHING ELEMENTARY SCIENCE

Semester: Spring 2018
Time: 8:00 a.m. – 10:45 a.m.
Day: Wednesday
Location: BEP 218

Instructor Information: Michael Odell, Ph.D.
Professor STEM Education
Sam and Celia Roosth Chair in Education

Office: HPR 131
Office Hours: W 11:00 – Noon and by Appointment
Office Telephone: 903-566-7132
E-mail: modell@uttyler.edu (preferred)

Course Catalog Description:
A process approach will be emphasized in the study of selected science programs drawn from the biological, earth and physical sciences. Prerequisite: EDUC 3310 and EPSY 3330, three-four hours of life science and three-four hours of physical science with labs, admission to the School of Education.

Student Learning Outcomes:
This course is designed to prepare you to teach science in the elementary and middle school. 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 be examining science as it relates to and can be integrated with, other subject areas.

<table>
<thead>
<tr>
<th>Course Topics and/or Student Learning Outcomes</th>
<th>Activities</th>
<th>Assessment (including performance-based)</th>
<th>Standards Alignment</th>
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</thead>
</table>
| 1.Integrate content standards in a variety of curricula that are developmentally appropriate, interesting, and relevant to student's lives, organized around inquiry, and connected with other school subjects | • NSTA Learning Center
• GLOBE
• PLTW
• Robotics
• Fieldtrips | • Indexer
• Lesson Plans
• Discussions
• Reflections | TES: 1A,B, C, E, 2A, B, C
ISTE: 1c
INTASC: 1, 2, 3, 4, 5, 7, 8, 9
TEKS: 112.11, 112.12, 112.13, 112.14, 112.15, 112.16 |
2. Create and teach lessons that reflect accurate knowledge of science content, the nature of science, science process skills, use of technology in science teaching, assessment, and science pedagogy

- 5 E Lesson Plan
- PBL Lesson Plan

- Draft 1
- Critical Friends
- Lesson Plan Rubric

TES: 3 A B C, 4 B,C, 5, A,B,C,D
ISTE: 1 b, 1c, 2c, 4a, 4b, 4c
INTASC: 1,2,3,4,5,6,7,8
TEKS: 112.11, 112.12,112.13, 112.14, 112.15, 112.16

3. Reflect upon their teaching experiences noting areas of strength and weakness and develop plans to improve their practice.

- Critical Friends
- Lesson plan review
- State accountability data

- Reflections
- Discussion Boards

TES: 6 a,b,d
ISTE: 4a, 4b, 4c, 7c
INTASC: 9

4. Choose from a variety of activity types in order to teach science in a way to address student needs including collaboration with colleagues, other school professionals, and the community

- FOSS
- Launch
- GLOBE
- NSTA
- PLTW
- Online

- Lesson Plan rubric

TES: 3 A B C, 4 B,C, 5, A,B,C,D
ISTE: 4,a,b,c 5. B, 7a
INTASC: 2,3,4,5,7,8,10
TEKS: 112.11, 112.12,112.13, 112.14, 112.15, 112.16

1. Expectations:

Class Participation:
This course is designed as a face-to-face format with an occasional 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.

This course utilizes small-group learning activities, whole-class discussions, demonstrations, and outside-of-school activities to model best science teaching practice and effective strategies for students. The outside-of-class experiences include working with small groups of students, completing assignments, and visiting field trip sites that would be useful for science teaching. 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. Field trips may be rescheduled or canceled due to weather.

Fieldtrips
Innovation Academy Experience (Fieldtrip):
You will be expected to participate in the Innovation Academy: A Texas STEM Academy located on campus. The experience will occur during class hours.

Discovery Science Place Experience (Fieldtrip):
You will be expected to participate in a DSP Fieldtrip. The experience will occur during class hours.
Science Fair/Academic Rodeo:
You will participate in judging student journals for a science fair. Because the judging of the science fair poster is outside our class period, you may volunteer to also be a poster/interview judge for extra credit points. This is the ONLY opportunity for extra credit.

2. Evaluation:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tr>
<td>STEM projects/lesson plans</td>
<td>(20%)</td>
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<tr>
<td>Participation: Discussions/In-Class activities/Workshops</td>
<td>(20%)</td>
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<tr>
<td>Classroom Assessments</td>
<td>(20%)</td>
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<tr>
<td>NSTA Learning Center Activities</td>
<td>(20%)</td>
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<tr>
<td>Final Exam</td>
<td>(20%)</td>
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NOTE: Unexcused absences are (-5%) of your grade. Late Assignments carry a (-10%) penalty per assignment. Signing in for an absent classmate is prohibited and considered academic dishonesty.

Section Detail
- **STEM projects/lesson plans (20%)**
  - 5E Unit/Lesson Plan (Summative Product)
    - Individual Assignment
  - 5E Drafts (Formative Feedback)

- **Participation: Discussions/In-Class activities/Workshops (20%)**
  - *Fieldtrips and Associated Activities*
    - Fieldtrip 1: Innovation Academy + Reflection
    - Fieldtrip 2: Discovery Science Place + Reflection
  - *Discussion Boards*
    - Timeliness and quality of response are important.
  - *Class Curriculum Workshops*
    - Standards Workshop
      - Science TEKS Analysis
      - Interdisciplinary Connections
      - College and Career Standards Connections
      - Other Standards
    - Assessment Workshop (Formative, Summative, STAAR)
      - Analyzing 5th Grade STAAR
      - Formative vs Summative Assessments
    - 5E Lesson Plan Workshop (Part 1)
      - Context
      - Preparing the lesson
      - Safety
      - Management
      - TEKS
      - Engage
      - Explore
      - Critical Friends
    - 5E Lesson Plan Workshop (Part 2)
      - Explain
      - Elaborate
      - Evaluate
      - Critical Friends
• Classroom Assessments (20%)
  • Pop Quizzes
  • 5th Grade Science STAAR Test Pre-Assessment
  • NSTA Content Indexer Pre Assessments
    o Solar System Pre
    o Cell Structure and Function Pre
    o Earth’s Changing Surface Pre
    o Elements, Atoms and Molecules Pre
    o Force and Motion Pre
    o Nature of Light Pre
    o Plate Tectonics Pre

• NSTA Learning Center Activities (20%)
  • Professional Plan
  • SciPacks
    o Students will complete 1 SciPack based upon Indexer Pre Assessment.
    o Student will Pass the Post Assessment for the designated SciPack
  • Collections: Each Student will create 3 collections in their NSTA Library.
    o Collection 1: Earth and Space Science (1000 Points)
    o Collection 2: Physical Science (1000 Points)
    o Collection 3: Life Science (1000 Points)

• Final Exam (20%): There will be a comprehensive Final Exam.

3. Grading:
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

4. Required Text, Materials/Supplies, and Related Readings:

REQUIRED E-TEXTBOOK: (Instructor will Demo the Text first day of Class)
Rather than using a traditional textbook we will be using the National Science Teachers Association Learning Center as an E-Text. There is a separate handout of instructions for students to follow in purchasing the NSTA Learning Center (NSTA LC) subscription. Cards can be purchased in the Bookstore.

*****IMPORTANT NOTE for STUDENTS*****:
Do NOT purchase individual NSTA Membership. Individual NSTA membership is sold online for $39 or $79 and does not include the NSTA Learning Center subscription.
You must purchase the class bundle which includes the NSTA Learning Center subscription AND NSTA student membership available ONLY at the web address provided below. The membership is a FREE benefit and will look enhance your professional resume.

Additional Required Supplies: N/A

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


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

Additional Information:
Field Requirement: You are required to complete 30 hours of field at an assigned elementary classroom. You are evaluated on two observed lessons by a university supervisor using the SOE Clinical Observation Rubric (COR).

You must successfully complete the practicum according to their university supervisor to pass this course.

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.
• Upload written assignments on the Blackboard Web site under the assignment tab

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.

d. 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.

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

f. Read assigned articles prior to each class meeting.
You are responsible for this information on tests as well as during class participation.

g. Criteria for all assignments will be available in class and posted online unless otherwise notified by the instructor.

h. 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 submitted to Blackboard. If a student is caught plagiarizing, a grade of zero will be given as well as a disposition for cheating.

i. 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
<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>Topic</th>
<th>Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>01-17-18</td>
<td>BEP</td>
<td>• Science Teaching Overview</td>
<td>-Purchase your text and login</td>
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<tr>
<td></td>
<td></td>
<td>• <em>Workshop A:</em> NSTA Learning Center</td>
<td>-Explore the Learning Center</td>
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<td>• <em>Workshop B:</em> Assessment</td>
<td>-Set up PD Plan</td>
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<td>-Create a Collection</td>
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<td>-Indexer</td>
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<tr>
<td>01-24-18</td>
<td>Online</td>
<td>• Pre-Assessment Day</td>
<td>-Take the Indexer exam (Pre Assessment)</td>
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<td>o STAAR</td>
<td>-Pre-Tests are to be completed by the end of the day.</td>
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<td>o NSTA Content Indexer</td>
<td>-Complete STAAR Science 5th Grade</td>
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<tr>
<td>01-31-18</td>
<td>BEP</td>
<td>• Planning to Teach Science:</td>
<td>-Science TEKS</td>
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<td>• <em>Workshop A:</em> Standards (TEKS/CCRS)</td>
<td>-Science CCRS</td>
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<tr>
<td>02-7-18</td>
<td>BEP</td>
<td>• Planning to Teach Science</td>
<td>-Develop Units and Lesson Plans.</td>
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<td>• Teaching Models</td>
<td>-SE Model Rubric</td>
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<td>• <em>Workshop A-1:</em> 5-E Model</td>
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<tr>
<td>02-14-18</td>
<td>BEP</td>
<td>• <em>Workshop A-2:</em> 5-E Model</td>
<td>- Develop Units and Lesson Plans.</td>
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<td>-SE Model Rubric</td>
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<tr>
<td>2-21-18</td>
<td>Online</td>
<td>• Compete 5E Draft</td>
<td>-Turn In Draft 5E Lesson</td>
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<tr>
<td>2-28-18</td>
<td>BEP</td>
<td>• Developing a Professional Learning Community</td>
<td>-In Class Activity: Critical Friends approach to lesson plan development.</td>
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<tr>
<td></td>
<td></td>
<td>• Critical Friends</td>
<td>-All students will present their plan.</td>
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<tr>
<td>3-7-18</td>
<td>Fieldtrip</td>
<td>• Innovation Academy</td>
<td><a href="http://www.uttia.org">www.uttia.org</a></td>
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<tr>
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<td></td>
<td>o PBL Model</td>
<td>-About (tab)</td>
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<td>o STEM School</td>
<td>-Academics (tab)</td>
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<td>o Team Learning</td>
<td>-PBL</td>
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<td>o Teacher Role</td>
<td><a href="https://www.youtube.com/watch?v=LMCZvGesRzR">https://www.youtube.com/watch?v=LMCZvGesRzR</a></td>
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<td>o Student Role</td>
<td>-Reflection: Reflect upon your visit. What did you observe? What questions do you have? What was similar to your visits in traditional schools? What was different? Environment? Etc.</td>
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<tr>
<td>3-14-18</td>
<td>BREAK</td>
<td>• BREAK</td>
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<td>NOTE: ScPack Due by end of Break</td>
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<td><a href="https://www.nasa.gov/topics/earth/earthday/gall_earth_night.html">https://www.nasa.gov/topics/earth/earthday/gall_earth_night.html</a></td>
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<td><a href="https://earthobservatory.nasa.gov/Features/NightLights/">https://earthobservatory.nasa.gov/Features/NightLights/</a></td>
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<tr>
<td>3-28-18</td>
<td>BEP</td>
<td>• Curriculum Focus: Outdoor Learning</td>
<td><a href="http://www.globe.gov">www.globe.gov</a></td>
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<td>o <em>GLOBE Program</em></td>
<td>Download GLOBE Observer App (Free)</td>
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<td>o Online GLOBE Project</td>
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<td>4-4-18</td>
<td>BEP</td>
<td>• Curriculum Focus: STEM</td>
<td><a href="http://www.pltw.org">www.pltw.org</a></td>
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<td>• <em>Workshop:</em> PLTW Launch</td>
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<tr>
<td>4-11-18</td>
<td>Fieldtrip</td>
<td>• Discovery Science Place</td>
<td><a href="http://www.discoveryscienceplace.org">www.discoveryscienceplace.org</a></td>
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<tr>
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<td>o Fieldtrip Protocols</td>
<td>Reflection: Reflect upon your visit. What did you observe? What questions do you have? What was different? Environment? Etc.</td>
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<td>o Science Stations</td>
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<td>o TEKS Assessment</td>
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<tr>
<td>4-18-18</td>
<td>BEP</td>
<td>• Curriculum Focus: Integrated Science</td>
<td>Science Process Skills Activities</td>
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<tr>
<td>4-25-18</td>
<td>BEP</td>
<td>Finalize Summative Products</td>
<td>Dead Week</td>
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<td>• 5 E Lesson</td>
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<td>• Professional Learning Plan</td>
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<td>• Resource Collection</td>
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<tr>
<td>5-2-18</td>
<td>BEP</td>
<td>Exam Week</td>
<td>Final Professional Portfolio Due</td>
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<td>Final Exam</td>
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</table>

*Changes to this syllabus may be made at the discretion of the instructor. It is the student's responsibility to keep up with these changes. Field trip dates may change depending upon the community organization.*
Texas Educator Standards
Title 19: Chapter 149, Subchapter AA
Rule: 149.1001

ELED 4314 meets the following HIGHLIGHTED Texas Educator Objectives:

(a) Purpose. The standards identified in this section are performance standards to be used to inform the training, appraisal, and professional development of teachers.

(b) Standards.

(1) Standard 1: Instructional Planning and Delivery. Teachers demonstrate their understanding of instructional planning and delivery by providing standards-based, data-driven, differentiated instruction that engages students, makes appropriate use of technology, and makes learning relevant for today's learners.

(A) Teachers design clear, well organized, sequential lessons that build on students' prior knowledge.

(i) Teachers develop lessons that build coherently toward objectives based on course content, curriculum scope and sequence, and expected student outcomes.

(ii) Teachers effectively communicate goals, expectations, and objectives to help all students reach high levels of achievement. (Clinical Outcome)

(iii) Teachers connect students' prior understanding and real-world experiences to new content and contexts, maximizing learning opportunities.

(B) Teachers design developmentally appropriate, standards-driven lessons that reflect evidence-based best practices.

(i) Teachers plan instruction that is developmentally appropriate, is standards driven, and motivates students to learn.

(ii) Teachers use a range of instructional strategies, appropriate to the content area, to make subject matter accessible to all students.

(iii) Teachers use and adapt resources, technologies, and standards-aligned instructional materials to promote student success in meeting learning goals.

(C) Teachers design lessons to meet the needs of diverse learners, adapting methods when appropriate.

(i) Teachers differentiate instruction, aligning methods and techniques to diverse student needs, including acceleration, remediation, and implementation of individual education plans. (Clinical Outcome)

(ii) Teachers plan student groupings, including pairings and individualized and small-group instruction, to facilitate student learning.

(iii) Teachers integrate the use of oral, written, graphic, kinesthetic, and/or tactile methods to teach key concepts.

(D) Teachers communicate clearly and accurately and engage students in a manner that encourages students' persistence and best efforts. (Clinical Outcome)

(i) Teachers ensure that the learning environment features a high degree of student engagement by facilitating discussion and student-centered activities as well as leading direct instruction. (Clinical Outcome)

(ii) Teachers validate each student's comments and questions, utilizing them to advance learning for all students. (Clinical Outcome)

(iii) Teachers encourage all students to overcome obstacles and remain persistent in the face of challenges, providing them with support in achieving their goals. (Clinical Outcome)

(E) Teachers promote complex, higher-order thinking, leading class discussions and activities that provide opportunities for deeper learning.

(i) Teachers set high expectations and create challenging learning experiences for students, encouraging them to apply disciplinary and cross-disciplinary knowledge to real-world problems.

(ii) Teachers provide opportunities for students to engage in individual and collaborative critical thinking and problem solving.
(iii) Teachers incorporate technology that allows students to interact with the curriculum in more significant and effective ways, helping them reach mastery.

(F) Teachers consistently check for understanding, give immediate feedback, and make lesson adjustments as necessary. (Clinical Outcome)

(i) Teachers monitor and assess student progress to ensure that their lessons meet students’ needs. (Clinical Outcome)

(ii) Teachers provide immediate feedback to students in order to reinforce their learning and ensure that they understand key concepts. (Clinical Outcome)

(iii) Teachers adjust content delivery in response to student progress through the use of developmentally appropriate strategies that maximize student engagement. (Clinical Outcome)

(2) Standard 2: Knowledge of Students and Student Learning. Teachers work to ensure high levels of learning, social-emotional development, and achievement outcomes for all students, taking into consideration each student’s educational and developmental backgrounds and focusing on each student’s needs.

(A) Teachers demonstrate the belief that all students have the potential to achieve at high levels and support all students in their pursuit of social-emotional learning and academic success.

(i) Teachers purposefully utilize learners’ individual strengths as a basis for academic and social-emotional growth. (Clinical Outcome)

(ii) Teachers create a community of learners in an inclusive environment that views differences in learning and background as educational assets. (Clinical Outcome)

(iii) Teachers accept responsibility for the growth of all of their students, persisting in their efforts to ensure high levels of growth on the part of each learner.

(B) Teachers acquire, analyze, and use background information (familial, cultural, educational, linguistic, and developmental characteristics) to engage students in learning.

(i) Teachers connect learning, content, and expectations to students’ prior knowledge, life experiences, and interests in meaningful contexts.

(ii) Teachers understand the unique qualities of students with exceptional needs, including disabilities and giftedness, and know how to effectively address these needs through instructional strategies and resources.

(iii) Teachers understand the role of language and culture in learning and know how to modify their practices to support language acquisition so that language is comprehensible and instruction is fully accessible.

(C) Teachers facilitate each student’s learning by employing evidence-based practices and concepts related to learning and social-emotional development.

(i) Teachers understand how learning occurs and how learners develop, construct meaning, and acquire knowledge and skills.

(ii) Teachers identify readiness for learning and understand how development in one area may affect students’ performance in other areas.

(iii) Teachers apply evidence-based strategies to address individual student learning needs and differences, adjust their instruction, and support the learning needs of each student. (Clinical Outcome)

(3) Standard 3—Content Knowledge and Expertise. Teachers exhibit a comprehensive understanding of their content, discipline, and related pedagogy as demonstrated through the quality of the design and execution of lessons and their ability to match objectives and activities to relevant state standards.

(A) Teachers understand the major concepts, key themes, multiple perspectives, assumptions, processes of inquiry, structure, and real-world applications of their grade-level and subject-area content.

(i) Teachers have expertise in how their content vertically and horizontally aligns with the grade-level/subject-area continuum, leading to an integrated curriculum across grade levels and content areas.

(ii) Teachers identify gaps in students’ knowledge of subject matter and communicate with their leaders and colleagues to ensure that these gaps are adequately addressed across grade levels and subject areas.
(iii) Teachers keep current with developments, new content, new approaches, and changing methods of instructional delivery within their discipline.

(B) Teachers design and execute quality lessons that are consistent with the concepts of their specific discipline, are aligned to state standards, and demonstrate their content expertise.

(i) Teachers organize curriculum to facilitate student understanding of the subject matter.

(ii) Teachers understand, actively anticipate, and adapt instruction to address common misunderstandings and preconceptions.

(iii) Teachers promote literacy and the academic language within the discipline and make discipline-specific language accessible to all learners.

(C) Teachers demonstrate content-specific pedagogy that meets the needs of diverse learners, utilizing engaging instructional materials to connect prior content knowledge to new learning.

(i) Teachers teach both the key content knowledge and the key skills of the discipline.

(ii) Teachers make appropriate and authentic connections across disciplines, subjects, and students' real-world experiences.

(4) Standard 4—Learning Environment. Teachers interact with students in respectful ways at all times, maintaining a physically and emotionally safe, supportive learning environment that is characterized by efficient and effective routines, clear expectations for student behavior, and organization that maximizes student learning.

(A) Teachers create a mutually respectful, collaborative, and safe community of learners by using knowledge of students' development and backgrounds.

(i) Teachers embrace students' backgrounds and experiences as an asset in their learning environment.

(ii) Teachers maintain and facilitate respectful, supportive, positive, and productive interactions with and among students.

(iii) Teachers establish and sustain learning environments that are developmentally appropriate and respond to students' needs, strengths, and personal experiences.

(B) Teachers organize their classrooms in a safe and accessible manner that maximizes learning.

(i) Teachers arrange the physical environment to maximize student learning and to ensure that all students have access to resources.

(ii) Teachers create a physical classroom set-up that is flexible and accommodates the different learning needs of students.

(C) Teachers establish, implement, and communicate consistent routines for effective classroom management, including clear expectations for student behavior.

(i) Teachers implement behavior management systems to maintain an environment where all students can learn effectively.

(ii) Teachers maintain a strong culture of individual and group accountability for class expectations.

(iii) Teachers cultivate student ownership in developing classroom culture and norms.

(D) Teachers lead and maintain classrooms where students are actively engaged in learning as indicated by their level of motivation and on-task behavior.

(i) Teachers maintain a culture that is based on high expectations for student performance and encourages students to be self-motivated, taking responsibility for their own learning.

(ii) Teachers maximize instructional time, including managing transitions.

(iii) Teachers manage and facilitate groupings in order to maximize student collaboration, participation, and achievement.

(iv) Teachers communicate regularly, clearly, and appropriately with parents and families about student progress, providing detailed and constructive feedback and partnering with families in furthering their students' achievement goals.
(5) Standard 5—Data-Driven Practice. Teachers use formal and informal methods to assess student growth aligned to instructional goals and course objectives and regularly review and analyze multiple sources of data to measure student progress and adjust instructional strategies and content delivery as needed.

(A) Teachers implement both formal and informal methods of measuring student progress.
   (i) Teachers gauge student progress and ensure student mastery of content knowledge and skills by providing assessments aligned to instructional objectives and outcomes that are accurate measures of student learning.
   (ii) Teachers vary methods of assessing learning to accommodate students' learning needs, linguistic differences, and/or varying levels of background knowledge.

(B) Teachers set individual and group learning goals for students by using preliminary data and communicate these goals with students and families to ensure mutual understanding of expectations.
   (i) Teachers develop learning plans and set academic as well as social-emotional learning goals for each student in response to previous outcomes from formal and informal assessments.
   (ii) Teachers involve all students in self-assessment, goal setting, and monitoring progress.
   (iii) Teachers communicate with students and families regularly about the importance of collecting data and monitoring progress of student outcomes, sharing timely and comprehensible feedback so they understand students' goals and progress.

(C) Teachers regularly collect, review, and analyze data to monitor student progress.
   (i) Teachers analyze and review data in a timely, thorough, accurate, and appropriate manner, both individually and with colleagues, to monitor student learning.
   (ii) Teachers combine results from different measures to develop a holistic picture of students' strengths and learning needs.

(D) Teachers utilize the data they collect and analyze to inform their instructional strategies and adjust short- and long-term plans accordingly.
   (i) Teachers design instruction, change strategies, and differentiate their teaching practices to improve student learning based on assessment outcomes.
   (ii) Teachers regularly compare their curriculum scope and sequence with student data to ensure they are on track and make adjustments as needed.

(6) Standard 6—Professional Practices and Responsibilities. Teachers consistently hold themselves to a high standard for individual development, pursue leadership opportunities, collaborate with other educational professionals, communicate regularly with stakeholders, maintain professional relationships, comply with all campus and school district policies, and conduct themselves ethically and with integrity.

(A) Teachers reflect on their teaching practice to improve their instructional effectiveness and engage in continuous professional learning to gain knowledge and skills and refine professional judgment.
   (i) Teachers reflect on their own strengths and professional learning needs, using this information to develop action plans for improvement.
   (ii) Teachers establish and strive to achieve professional goals to strengthen their instructional effectiveness and better meet students' needs.
   (iii) Teachers engage in relevant, targeted professional learning opportunities that align with their professional growth goals and their students' academic and social-emotional needs.

(B) Teachers collaborate with their colleagues, are self-aware in their interpersonal interactions, and are open to constructive feedback from peers and administrators.
   (i) Teachers seek out feedback from supervisors, coaches, and peers and take advantage of opportunities for job-embedded professional development.
   (ii) Teachers actively participate in professional learning communities organized to improve instructional practices and student learning.

(C) Teachers seek out opportunities to lead students, other educators, and community members within and beyond their classrooms.
   (i) Teachers clearly communicate the mission, vision, and goals of the school to students, colleagues, parents and families, and other community members.
(ii) Teachers seek to lead other adults on campus through professional learning communities, grade- or subject-level team leadership, committee membership, or other opportunities.

(D) Teachers model ethical and respectful behavior and demonstrate integrity in all situations.

(i) Teachers adhere to the educators’ code of ethics in §247.2 of this title (relating to Code of Ethics and Standard Practices for Texas Educators), including following policies and procedures at their specific school placement(s).

(ii) Teachers communicate consistently, clearly, and respectfully with all members of the campus community, including students, parents and families, colleagues, administrators, and staff.

(iii) Teachers serve as advocates for their students, focusing attention on students’ needs and concerns and maintaining thorough and accurate student records.
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.

Students Rights and Responsibilities
To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link: http://www.utttyler.edu/wellness/rightsresponsibilities.php

Grade Replacement/Forgiveness and Census Date Policies
Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. (For Spring 2016, the Census Date is February 1st.) Grade Replacement Contracts are available in the Enrollment Services Center or at http://www.utttyler.edu/registrar. Each semester’s Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar. Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.

The Census Date is the deadline for many forms and enrollment actions of which students need to be aware. These include:
- Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
- Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)
- Schedule adjustments (section changes, adding a new class, dropping without a “W” grade)
- Being reinstated or re-enrolled in classes after being dropped for non-payment
- Completing the process for tuition exemptions or waivers through Financial Aid

State-Mandated Course Drop Policy
Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date). Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.

Disability Services
In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA) the University offers accommodations to students with learning, physical and/or psychiatric disabilities. If you have a disability, including non-visible disabilities such as chronic diseases, learning disabilities, head injury, PTSD or ADHD, or you have a history of modifications or accommodations in a previous educational environment you are encouraged to contact the Student Accessibility and Resources office and schedule an interview with the Accessibility Case Manager/ADA Coordinator, Cynthia Lowery Staples. If you are unsure if the above criteria applies to you, but have questions or concerns please contact the SAR office. For more information or to set up an appointment please visit the SAR office located in the University Center, Room 3150 or call 903.566.7079. You may also send an email to cstaples@uttyler.edu

Student Absence due to Religious Observance
Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

Student Absence for University-Sponsored Events and Activities
If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.
Social Security and FERPA Statement:
It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

Emergency Exits and Evacuation:
Everyone is required to exit the building when a fire alarm goes off. Follow your instructor’s directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in the first week of class. Do not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.

Student Standards of Academic Conduct: Disciplinary proceedings may be initiated against any student who engages in scholastic dishonesty, including, but not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts. (i) “Cheating” includes, but is not limited to: • copying from another student’s test paper; • using, during a test, materials not authorized by the person giving the test; • failure to comply with instructions given by the person administering the test; • possession during a test of materials which are not authorized by the person giving the test, such as class notes or specifically designed “crib notes”. The presence of textbooks constitutes a violation if they have been specifically prohibited by the person administering the test; • using, buying, stealing, transporting, or soliciting in whole or part the contents of an un-administered test, test key, homework solution, or computer program; • collaborating with or seeking aid from another student during a test or other assignment without authority; • discussing the contents of an examination with another student who will take the examination; • divulging the contents of an examination, for the purpose of preserving questions for use by another, when the instructors has designated that the examination is not to be removed from the examination room or not to be returned or to be kept by the student; • substituting for another person, or permitting another person to substitute for oneself to take a course, a test, or any course-related assignment; • paying or offering money or other valuable thing to, or coercing another person to obtain an un-administered test, test key, homework solution, or computer program or information about an un-administered test, test key, home solution or computer program; • falsifying research data, laboratory reports, and/or other academic work offered for credit; • taking, keeping, misplacing, or damaging the property of The University of Texas at Tyler, or of another, if the student knows or reasonably should know that an unfair academic advantage would be gained by such conduct; and • misrepresenting facts, including providing false grades or resumes, for the purpose of obtaining an academic or financial benefit or injuring another student academically or financially.
(ii) “Plagiarism” includes, but is not limited to, the appropriation, buying, receiving as a gift, or obtaining by any means another’s work and the submission of it as one’s own academic work offered for credit.

(iii) “Collusion” includes, but is not limited to, the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any section of the rules on scholastic dishonesty.

(iv) All written work that is submitted will be subject to review by SafeAssign, available on Blackboard.

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.
(b) Enforceable Standards.

(1) Professional Ethical Conduct, Practices and Performance.

(A) **Standard 1.1.** The educator shall not intentionally, knowingly, or recklessly engage in deceptive practices regarding official policies of the school district, educational institution, educator preparation program, the Texas Education Agency, or the State Board for Educator Certification (SBEC) and its certification process.

(B) **Standard 1.2.** The educator shall not knowingly misappropriate, divert, or use monies, personnel, property, or equipment committed to his or her charge for personal gain or advantage.

(C) **Standard 1.3.** The educator shall not submit fraudulent requests for reimbursement, expenses, or pay.

(D) **Standard 1.4.** The educator shall not use institutional or professional privileges for personal or partisan advantage.

(E) **Standard 1.5.** The educator shall neither accept nor offer gratuities, gifts, or favors that impair professional judgment or to obtain special advantage. This standard shall not restrict the acceptance of gifts or tokens offered and accepted openly from students, parents of students, or other persons or organizations in recognition or appreciation of service.

(F) **Standard 1.6.** The educator shall not falsify records, or direct or coerce others to do so.

(G) **Standard 1.7.** The educator shall comply with state regulations, written local school board policies, and other state and federal laws.

(H) **Standard 1.8.** The educator shall apply for, accept, offer, or assign a position or a responsibility on the basis of professional qualifications.

(I) **Standard 1.9.** The educator shall not make threats of violence against school district employees, school board members, students, or parents of students.

(J) **Standard 1.10.** The educator shall be of good moral character and be worthy to instruct or supervise the youth of this state.

(K) **Standard 1.11.** The educator shall not intentionally or knowingly misrepresent his or her employment history, criminal history, and/or disciplinary record when applying for subsequent employment.

(L) **Standard 1.12.** The educator shall refrain from the illegal use or distribution of controlled substances and/or abuse of prescription drugs and toxic inhalants.

(M) **Standard 1.13.** The educator shall not consume alcoholic beverages on school property or during school activities when students are present.

(2) Ethical Conduct Toward Professional Colleagues.

(A) **Standard 2.1.** The educator shall not reveal confidential health or personnel information concerning colleagues unless disclosure serves lawful professional purposes or is required by law.

(B) **Standard 2.2.** The educator shall not harm others by knowingly making false statements about a colleague or the school system.

(C) **Standard 2.3.** The educator shall adhere to written local school board policies and state and federal laws regarding the hiring, evaluation, and dismissal of personnel.

(D) **Standard 2.4.** The educator shall not interfere with a colleague's exercise of political, professional, or citizenship rights and responsibilities.

(E) **Standard 2.5.** The educator shall not discriminate against or coerce a colleague on the basis of race, color, religion, national origin, age, gender, disability, family status, or sexual orientation.

(F) **Standard 2.6.** The educator shall not use coercive means or promise of special treatment in order to influence professional decisions or colleagues.

(G) **Standard 2.7.** The educator shall not retaliate against any individual who has filed a complaint with the SBEC or who provides information for a disciplinary investigation or proceeding under this chapter.

(3) Ethical Conduct Toward Students.

(A) **Standard 3.1.** The educator shall not reveal confidential information concerning students unless disclosure serves lawful professional purposes or is required by law.

(B) **Standard 3.2.** The educator shall not intentionally, knowingly, or recklessly treat a student or minor in a manner that adversely affects or endangers the learning, physical health, mental health, or safety of the student or minor.

(C) **Standard 3.3.** The educator shall not intentionally, knowingly, or recklessly misrepresent facts regarding a student.

(D) **Standard 3.4.** The educator shall not exclude a student from participation in a program, deny benefits to a student, or grant an advantage to a student on the basis of race, color, gender, disability, national origin, religion, family status, or sexual orientation.
(E) **Standard 3.5.** The educator shall not intentionally, knowingly, or recklessly engage in physical mistreatment, neglect, or abuse of a student or minor.

(F) **Standard 3.6.** The educator shall not solicit or engage in sexual conduct or a romantic relationship with a student or minor.

(G) **Standard 3.7.** The educator shall not furnish alcohol or illegal/unauthorized drugs to any person under 21 years of age unless the educator is a parent or guardian of that child or knowingly allow any person under 21 years of age unless the educator is a parent or guardian of that child to consume alcohol or illegal/unauthorized drugs in the presence of the educator.

(H) **Standard 3.8.** The educator shall maintain appropriate professional educator-student relationships and boundaries based on a reasonably prudent educator standard.

(I) **Standard 3.9.** The educator shall refrain from inappropriate communication with a student or minor, including, but not limited to, electronic communication such as cell phone, text messaging, email, instant messaging, blogging, or other social network communication. Factors that may be considered in assessing whether the communication is inappropriate include, but are not limited to:

(i) the nature, purpose, timing, and amount of the communication;
(ii) the subject matter of the communication;
(iii) whether the communication was made openly or the educator attempted to conceal the communication;
(iv) whether the communication could be reasonably interpreted as soliciting sexual contact or a romantic relationship;
(v) whether the communication was sexually explicit; and
(vi) whether the communication involved discussion(s) of the physical or sexual attractiveness or the sexual history, activities, preferences, or fantasies of either the educator or the student.

Source Note: The provisions of this §247.2 adopted to be effective March 1, 1998, 23 TexReg 1022; amended to be effective August 22, 2002, 27 TexReg 7530; amended to be effective December 26, 2010, 35 TexReg 11242

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### THE ISTE STANDARDS FOR EDUCATORS

1

**Learner**

Educators continually improve their practice by learning from and with others and exploring proven and promising practices that leverage technology to improve student learning. Educators:

1a

Set professional learning goals to explore and apply pedagogical approaches made possible by technology and reflect on their effectiveness.

1b

Pursue professional interests by creating and actively participating in local and global learning networks.

1c

Stay current with research that supports improved student learning outcomes, including findings from the learning sciences.

2

**Leader**
Educators seek out opportunities for leadership to support student empowerment and success and to improve teaching and learning. Educators:

**VIEW INDICATORS**

2a
Shape, advance and accelerate a shared vision for empowered learning with technology by engaging with education stakeholders.

2b
Advocate for equitable access to educational technology, digital content and learning opportunities to meet the diverse needs of all students.

2c
Model for colleagues the identification, exploration, evaluation, curation and adoption of new digital resources and tools for learning.

3
Citizen

Educators inspire students to positively contribute to and responsibly participate in the digital world. Educators:

**VIEW INDICATORS**

3a
Create experiences for learners to make positive, socially responsible contributions and exhibit empathetic behavior online that build relationships and community.

3b
Establish a learning culture that promotes curiosity and critical examination of online resources and fosters digital literacy and media fluency.

3c
Mentor students in safe, legal and ethical practices with digital tools and the protection of intellectual rights and property.

3d
Model and promote management of personal data and digital identity and protect student data privacy.

4
Collaborator

Educators dedicate time to collaborate with both colleagues and students to improve practice, discover and share resources and ideas, and solve problems. Educators:

**VIEW INDICATORS**
4a
Dedicate planning time to collaborate with colleagues to create authentic learning experiences that leverage technology.

4b
Collaborate and co-learn with students to discover and use new digital resources and diagnose and troubleshoot technology issues.

4c
Use collaborative tools to expand students’ authentic, real-world learning experiences by engaging virtually with experts, teams and students, locally and globally.

4d
Demonstrate cultural competency when communicating with students, parents and colleagues and interact with them as co-collaborators in student learning.

5
Designer
Educators design authentic, learner-driven activities and environments that recognize and accommodate learner variability. Educators:

VIEW INDICATORS
5a
Use technology to create, adapt and personalize learning experiences that foster independent learning and accommodate learner differences and needs.

5b
Design authentic learning activities that align with content area standards and use digital tools and resources to maximize active, deep learning.

5c
Explore and apply instructional design principles to create innovative digital learning environments that engage and support learning.

6
Facilitator
Educators facilitate learning with technology to support student achievement of the ISTE Standards for Students. Educators:

VIEW INDICATORS
6a
Foster a culture where students take ownership of their learning goals and outcomes in both independent and group settings.
Manage the use of technology and student learning strategies in digital platforms, virtual environments, hands-on makerspaces or in the field.

Create learning opportunities that challenge students to use a design process and computational thinking to innovate and solve problems.

Model and nurture creativity and creative expression to communicate ideas, knowledge or connections.

Analyst

Educators understand and use data to drive their instruction and support students in achieving their learning goals. Educators:

VIEW INDICATORS

Provide alternative ways for students to demonstrate competency and reflect on their learning using technology.

Use technology to design and implement a variety of formative and summative assessments that accommodate learner needs, provide timely feedback to students and inform instruction.

Use assessment data to guide progress and communicate with students, parents and education stakeholders to build student self-direction.

Bibliography


**Physical Sciences**


**Life Sciences**


**Earth and Space Sciences**


