College of Education and Psychology
School of Education

EDUC 5359 – Educational Technology

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Term: Fall 2024
Last Day to withdraw from this course: November 4, 2024

Course Description

This introductory graduate educational technology course is for individuals who want a broad practical course in learning how to integrate emerging technologies into elementary and secondary classrooms. Students will take a constructivist approach to understanding educational technology as articulated in the International Educational Technology Standards for Teachers.

This course is designed as an **online course**. Please allow up to 48 hours for response to an email. Office hours are by appointment and will be held virtually.

Student Learning Outcomes

The purpose of this course is to help educators expose students to basic computer programming and new technologies in hopes of inspiring students to pursue careers in science, technology, mathematics, and engineering (STEM) fields within a global economy. More specifically and in keeping with the National Education Technology Standards (NETS), part of the International Society for Technology in Education (ISTE) standards, and the Next Generation Science Standards (NGSS), by the end of the course you will better be able to:

- Leverage technology to take an active role in choosing, achieving, and demonstrating competency in your learning goals, informed by the learning sciences. (INTASC Standards: 2, 4, 7, 8, 11)
- Critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for yourself and others (INTASC Standards: 1, 2, 3, 4, 6, 11)
- Use a variety of technologies within a design process to identify and solve problems by creating new, useful, or imaginative solutions. (INTASC Standards: 1, 2, 6, 11)
- Recognize the rights, responsibilities, and opportunities of living, learning, and working in an interconnected digital world, and you act and model in ways that are safe, legal and ethical. (INTASC Standards: 2, 3, 6, 9, 10, 11)
- Develop and employ strategies for understanding and solving problems in ways that leverage the power of technological methods to develop and test solutions. (INTASC

Standards: 6, 9, 11) • Communicate clearly and express yourself creatively for a variety of purposes using the platforms, tools, styles, formats, and digital media appropriate to your goals. (INTASC Standards: 4, 6, 11)
• Use digital tools to broaden your perspectives and enrich their learning by collaborating with others and working effectively in teams locally and globally. (INTASC Standards: 1, 2, 3, 4, 5, 6, 9, 10, 11)

Required Text and Related Readings

There are no required textbooks. There are selected instructor readings provided per module.

Required Materials and Supplies:
Technology Requirements:

Hardware:

• Desktop or Laptop computer with internet access. This may be a Windows or MAC based computer; however, many of the applications will require downloads and tutorials specific to the device.
• Camera, microphone, and sound.

Note: If your Internet connection is down, *it is your responsibility* to seek access at a venue such as in the UTT computer lab or a public library to complete and submit your work on time.

Software:

• A current operating system (Microsoft or Apple)
• A web browser (e.g., Chrome, Safari, Firefox, etc.).
• Access to Canvas and Patriot Mail
• Microsoft Office (Available at no charge to students at https://www.uttyler.edu/offices/information-technology/office365/index.php
• Adobe Reader or another PDF reader such as Preview on the Mac
• *Other software as noted in each module.*

Course Policies and Guidelines:

Instructional methods for this online course include:

• Lectures, videos, course activities, and projects.
• Canvas postings and discussions.
• Research and pedagogy regarding best practices in classrooms.

Assignment Submission:

For 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 on your paper.
- **Upload written assignments on the Canvas 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 7th edition APA Manual.

Late Work: Assignments and projects are expected to be handed in on time. Assignments are expected to be dropped in the assignment box on Canvas. You may turn in your assignment early. *Late assignments are not accepted unless prior arrangements have been made with the instructor.* Assignments for each lesson are due at the closing date of each lesson. Assignment dates are posted in Canvas.

Attendance: The attendance policy recommended by the University is followed in this course. Course objectives and performance outcomes cannot be met unless you participate in class activities. If you are absent for an extended period, you should plan to explore options such as retaking the course or taking an incomplete grade.

Read chapters assigned from the instructor in each module.
You are responsible for this information on tests as well as during class participation.
Criteria for all assignments will be posted online unless otherwise notified by the instructor.

Canvas– You are responsible for enrolling on **Canvas** (https://www.uttyler.edu/canvas/index.php/) prior to the second day and monitoring the course Canvas site regularly for course information. Assignments will be turned in through the assignment tab in Canvas.

Unicheck is a tool that will be used to check a document for plagiarism. The tool provides feedback as to whether the text in a document is a close match with other documents on the Internet, in journal databases, and submitted to Canvas. If a student is caught plagiarizing, a grade of zero will be given as well as a disposition for cheating.

The Use of Artificial Intelligence: Generative artificial intelligence (AI) like the software ChatGPT is now widely available to produce text, images, and other media. It is important to keep the following in mind: (1) An AI cannot pass this course; (2) Intellectual honesty is vital to the academic community and for my fair evaluation of your work, all work submitted in this course must be your own, completed in accordance with the University's academic regulations; (3) You must obtain permission from me before using AI composition software (like ChatGPT) for any assignments in this course. Using these tools without my permission puts your academic integrity at risk. When content is produced by an artificial intelligence tool, it must be cited appropriately.

Course Content and Evaluation:

1. Class Participation (30%): In each module, you will have the opportunity to earn points for participating in discussions and answering short assessments. These discussions will be held

inside of Canvas. Please do not approach this component as simply a bunch of tasks to be completed each week, but an opportunity to truly collaborate and learn from each other.

2. **Class Projects (60%):** In addition to the participation activities, you will create several projects. These will range in difficulty from simple to more complex and be valued from 10-100 points.

3. **Final Exam (10%)**: A final project will be submitted in lieu of an exam.

4. **Grading** is not based upon a curve. 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

Course Topical Outline and Assignments

Module 1: Introduction to Educational Technology (Aug 26-Aug 30)

- Assignment: Course Introductions (10 pts)
- Jamboard Quick Thinking (10 pts)
- Quiz 1: What is Educational Technology? (28 pts)

Module 2: How do People Learn: Theory into Practice (Sept 2-6)

- Assignment: TPACK and ISTE (35 pts)
- Quiz 2: How do People Learn/TPACK (22 pts)

Module 3 & 4: Words and Graphics (Sept 9-20)

- Assignment: The Multimedia Slide (25 pts)
- Assignment: Using Word Clouds (50 pts)
- Assignment: Infographics (50 pts)
- Quiz 3: Words and Graphics (23 pts)

Module 5: Using Tools to Collaborate (Sept 23-27)

- Assignment: Make a Meme (20 pts)
- TEDED Quiz (10 pts)
- Assignment: Choice Board (100 pts)

Module 6: Digital Citizenship (Sept 30-Oct 4)

- Quiz 6: Google Promote Digital Citizenship and Positive Online Behavior (100 pts)

Module 7: Using Tools to Tell Stories (Oct 7-11)

- Assignment: Digital Story (50 pts)
- Quiz 7: Lesson 6 ARC (6 pts)

Module 8: Digital Storytelling with Podcasts (Oct 14-18)

- Assignment: Podcasting (Peer Reviews) (100 pts)
- Quiz 8: Podcasting (12 pts)

Module 9: Technology for Diverse Needs (Oct 21-25)

- Quiz 9: Introduction to Assistive Technology (25 pts)
- Quiz 10: UDL (25 pts)

Module 10-11: Simulations and Serious Games (Oct 28-Nov 8)

- Phet Simulation Quiz (5 pts)
- Games Quiz 11: Game Worlds (8 pts)
- Assignment: Create a Game (50 pts)

Module 12: Immersive and Mixed Realities (Nov 11-15)

- Quiz 12: Mixed Realities (10 pts)
- Assignment: Lesson Plan: Mixed Realities (50 pts)

Module 13-14: Artificial Intelligence (Nov 18-22 and Dec 2-6)

- Quiz 13: AI Applications in Education (20 pts)
- Policy Analysis: AI in Schools (20 pts)
- Assignment: AI Tool Evaluation (50 pts)

Thanksgiving Week - Holiday (Nov 25-29)

Module 15: Course Wrap-Up and Final Product Due (Dec 9)

UNIVERSITY POLICIES

University Policies and 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.

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).*

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.

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.

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.

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.

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.

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.