Graduate Educational Technology Courses

EDTC 5086. Educational Technology Problems. 1-3 Credit Hours (Lecture: 0 Hours, Lab: 1-3 Hours).
Open to graduate students who are capable of developing a problem independently. Problems must be chosen by the student and approved in advance by the instructor and department head. Prerequisites: Full admission to the College of Graduate Studies and a graduate degree or certification program.

EDTC 5307. Adult Learners. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).
A study of the theory and research pertaining to adult learners. Topics for study include the characteristics of adult learners, human performance improvement, instructional and assessment strategies that are effective with adults, technology applications for instructional delivery, and program assessment. Students may not count both EDUC 5307 and EDTC 5307 for credit toward a degree.

EDTC 5317. Educational Technology for Classroom Teachers. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).
This course is designed to develop the capacity of classroom teachers to plan, organize, deliver, and evaluate instruction for learners through the effective use and integration of current technology. The use of technology for ethical and professional communication with colleagues, community, and students, learner privacy online, effective application of technology, and issues regarding copyright and intellectual property are also addressed. Teacher candidates will also examine digital citizenship and contemporary legal issues of the 21st century classrooms. Prerequisite: Admission to the Tarleton Master of Arts in Teacher Education program.

EDTC 5338. Principles of Instructional Design. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).
This course provides an introduction to several models for instructional systems design and thoroughly examines the process of designing effective instruction. In addition to an in-depth study of instructional design theory, the course features an application of the instructional design process in a phased-based project.

EDTC 5339. Leading Technology Innovation in Education. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).
In this course, the tenets of leadership that are necessary to effectively facilitate technology innovation and change within education will be examined. Students will develop and apply appropriate strategies for their own contexts with regard to providing visionary leadership, fostering a culture of innovation in teaching and learning, promoting and guiding professional development programs, and evaluating and refining initiatives for systemic improvement.

EDTC 5349. Educational Media and Technology. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).
This foundational course provides an examination of the role of technology in school settings and an exploration of available technologies and the applications for instruction. Focus is on web-based applications for communication and collaboration that expand and extend learning environments.

EDTC 5353. Designing Online Learning Environments. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).
This course will provide an overview of designing and organizing effective online learning environments. Instructional design principles will serve as a guide as students study multiple Learning Management Systems and software used for developing online learning objects, learning modules, and interactive activities. Students will use their knowledge to develop an online course or module with consideration for the planning, implementation, evaluation and revision cycle needed for continuous updating of an online course.

EDTC 5354. Facilitating Online Learning Environment. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).
This course will prepare students to use effective teaching strategies in an online learning environment with an emphasis on communication, interaction, and organization skills necessary to facilitate and lead online learning. Students will develop and apply appropriate strategies for promoting active and collaborative learning, managing workload and administrative issues related to online teaching, and articulating effective pedagogy for online students.

EDTC 5356. Social Media Use in Education. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).
The purpose of this course is to familiarize students with the use of social media in education. During the course, students will explore applications of social media use to enhance learning environments, discuss best practices for teaching and learning with social media, and develop a leadership vision for the integration of social media in teaching and learning.

EDTC 5359. Leading and Learning with Technology. 3 Credit Hours (Lecture: 2 Hours, Lab: 3 Hours).
The course focuses on using technology to study K-12 student learning outcomes, assessment, data analysis, and instructional decision making. Mentoring skills necessary for leadership and peer technology support are also explored. An analysis of Statewide TAKS data will be completed and applied to research of current educational problems. Prerequisite: Permission of the instructor. Lab fee: $20.

EDTC 5370. Intern/Service Learning Capstone. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).
A supervised internship in which the student applies knowledge from the course of study related to instructional design, online course development, online course teaching, or instructional technology leadership for a public or private organization. This project addresses a practical, real-world challenge using the skills and knowledge students have gained throughout their program of study. The completed project will demonstrate critical thinking, research-based best practices, review of scholarly literature, and formal reporting consistent with APA style.

EDTC 6348. Facilitating Instructional Innovation in Higher Education. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).
This course focuses on the tenets of facilitating instructional innovation in higher education settings. Students examine models and strategies for the leadership of instructional innovation, including strategies for co-creating a shared vision for teaching, learning, and assessment at the university, providing meaningful and relevant training and professional development options for students and faculty, and providing critical teaching and learning support for faculty and students. Prerequisites: Doctoral standing.

EDTC 6358. Facilitating Instructional Innovation in EC-12 Education. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).
This course focuses on facilitating instructional innovation in EC-12 education settings. Students examine models and strategies for the creation of a digital-age learning culture. This includes strategies for co-creating and maintaining a shared vision for teaching, learning, and assessment. It also provides meaningful and relevant professional development opportunities for students, teachers, and parents as well as teaching and learning support for students, teachers, and parents. Prerequisites: Doctoral standing.

EDTC 6359. Leading Technology Innovation in Education. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).
This course focuses on the tenets of leadership necessary to facilitate technology innovation and change within education. Students develop and apply strategies to provide leadership, foster a culture of innovation in teaching and learning, promote and guide professional development programs, and evaluate and refine initiatives for systemic improvement. Prerequisites: Doctoral standing.

EDTC 6360. Facilitating Instructional Innovation in Education. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).
This course focuses on the tenets of facilitating instructional innovation in higher education and Pk-12 settings. Students examine models and strategies for the leadership of instructional innovation, including strategies for co-creating a shared vision for teaching, learning, and assessment at the university, providing meaningful and relevant training and professional development options for students and faculty, and providing critical teaching and learning support for faculty and students. Prerequisite: Admission to the EdD program.

EDTC 6361. Visionary Planning to Transform Learning with Technology. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).
This course will focus on the tenets of leadership that are necessary to cast a vision for effective technology innovation and change within education. Students will develop and apply appropriate strategies for their own contexts with regard to engaging stakeholders in developing and adopting a shared vision for using technology to improve student access that is informed by learning science; building upon the shared vision by collaboratively creating a strategic plan that articulates how technology will be used to enhance learning; evaluate progress on the strategic plan, make course corrections, measure impact, and scale effective approaches for using technology to transform learning; communicate effectively with stakeholders to gather input on the plan, celebrate successes and engage in a continuous improvement cycle; share lessons learned, best practices, challenges and the impact of learning with technology with other education leaders. Prerequisite: Admission to the EdD program.

EDTC 6362. Implementing Technology Strategy and Systems. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).
This course will focus on the tenets of leadership that are necessary to implement technology strategy and systems within education. Students will develop and apply appropriate strategies for their own contexts with regard to leading teams to collaboratively establish the robust infrastructure and systems needed to implement the strategic technology plan; ensure that resources for supporting the effective use of technology for learning are sufficient and scalable to meet future demand; protect user privacy and security; and establish partnerships that support the strategic vision, achieve learning priorities and improve operations. Prerequisite: Admission to the EdD program.

EDTC 6363. Promoting Continuous Professional Learning. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).
This course will focus on the tenets of leadership that are necessary to develop, model, and promote continuous professional learning within education. Students will study emerging technologies for learning, innovations in pedagogy, and advancements in the learning sciences and examine goals and strategies for ensuring educators seek to continually learn and grow in these areas; examine and evaluate potential PLN (Personal Learning Networks) to collaboratively learn with and mentor other professionals; reflect on professional growth in the area of technology innovation and brainstorm ideas for continued growth; and develop strategies for promoting a mindset of continuous improvement for how technology can improve learning. Prerequisite: Admission to the EdD program.

EDTC 6364. Empowering Technology Innovation and Change. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).
This course will focus on the tenets of leadership that are necessary to empower technology innovation and change within education. Students will critically examine organizational behavior and culture theory and change to inform ideas for empowering educators to exercise professional agency and build teacher leadership; study cases where educational leaders have inspired a culture of innovation and collaboration, develop learning assessments that provide a personalized, actional view of student progress in real-time. Prerequisite: Admission to the EdD program.