School of Education and Human Services

EDUC3313 – Digital Instructional Strategies is a new course offered in the School of Education and Human Services that will address technology integration in the classroom. This course will explore various technology tools (hardware, software, apps, and tools) that help facilitate teaching and learning. The course will not concentrate on specific platforms in order to broaden the ability of pre-service teachers to experiencing technology and exploring ways to use it with students. In addition to the exploration of technology tools, the course will use the state of Texas Technology Standards and the International Society for Technology in Education (ISTE) Standards for Educators as basic frameworks underlying the course.

State/National/Professional Association Standards Guiding Course:
The following are competencies that you will be responsible for demonstrating successfully as part of the TExES exam. This exam is taken during your last semester before graduating.

- *Standard I* – All teachers use and promote creative thinking and innovative processes to construct knowledge, generate new ideas, and create products.
- *Standard II* – All teachers collaborate and communicate both locally and globally using digital tools and resources to reinforce and promote learning.
- *Standard III* – All teachers acquire, analyze, and manage content from digital resources.
- *Standard IV* – All teachers make informed decisions by applying critical-thinking and problem-solving skills.
- *Standard V* – All teachers practice and promote safe, responsible, legal, and ethical behavior while using technology tools and resources.
- *Standard VI* – All teachers demonstrate a thorough understanding of technology concepts, systems, and operations.
- *Standard VII* – All teachers know how to plan, organize, deliver, and evaluate instruction for all students that incorporates the effective use of current technology for teaching and integrating the Technology Applications Texas Essential Knowledge and Skills (TEKS) into the curriculum.

ISTE Standards for Educators
With the passing in 2017, of Senate Bill 1839, the state of Texas now requires that preservice teachers be ready to teach in a digital environment and requires an understanding of the International Society for Technology in Education (ISTE) Educator Standards as the framework. These are the ISTE standards for educators.

1. Empowered Professional: 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:
   a. Set professional learning goals to explore and apply pedagogical approaches made possible by technology and reflect on their effectiveness.

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

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

2. Empowered Professional: Leader – Educators seek out opportunities for leadership to support student empowerment and success and to improve teaching and learning. Educators:

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

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

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

3. Empowered Professional: Citizen – Educators inspire students to positively contribute to and responsibly participate in the digital world. Educators:

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

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

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

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

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

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

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

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

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

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

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

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

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

6. Learning Catalyst: Facilitator – Educators facilitate learning with technology to support student achievement of the 2016 ISTE Standards for Students. Educators:

a. Foster a culture where students take ownership of their learning goals and outcomes in both independent and group settings.

b. Manage the use of technology and student learning strategies in digital platforms, virtual environments, hands-on makerspaces, or in the field.

c. Create learning opportunities that challenge students to use a design process and computational thinking to innovate and solve problems.
    d. Model and nurture creativity and creative expression to communicate ideas, knowledge, or connections.
7. Learning Catalyst: Analyst – Educators understand and use data to drive their instruction and support students in achieving their learning goals. Educators:
    a. Provide alternative ways for students to demonstrate competency and reflect on their learning using technology.
    b. 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.
    c. Use assessment data to guide progress and communicate with students, parents, and education stakeholders to build student self-direction.

Course Objectives/Learning Outcomes

At the conclusion of this course, participants will demonstrate knowledge and understanding of:
1. Participation in a global society for professional and personal growth.
2. Be a leader in the use of technology
3. Demonstrate ethical use of technology and digital literacy and model for students and colleagues.
4. Collaboratively work with students and educational stakeholders (colleagues, parents, community) to improve student learning.
5. Effectively curating and evaluating digital technologies for appropriateness to ensure positive student learning outcomes.
6. Create authentic and creative learning experiences using technology.
7. Be able to effectively use technology in the design of student learning that aligns with Texas content standards remembering that teaching is first and technology is second.
8. Be able to effectively use technology to design and assess student learning.
9. Providing differentiation of instruction with technology that allows students alternative ways to show understanding of concepts.
10. Create independent thinkers where students take ownership of their own learning through the use of the ISTE Standards for Educators and Students.