T&L 590
Educational Technology in Schools (graduate online)

Conceptual Framework
The teacher education programs at the University of North Dakota are grounded on constructivist principles. Through our programs, we support the development of educators who:
- are committed to the continuing process of learning about many things, especially about their content and learning to teach;
- are able to take an active role in promoting the learning of all students;
- will advocate with and for students, parents, colleagues, school and community.

Course description and purpose:
The course will explore and examine current issues and the use of technology in education as a tool to enhance teaching & learning. The course will provide you with the knowledge, skills, and attitudes necessary for using technology to enhance your teaching and your students' learning.

Text:
Smaldino, S. E. (2019). Instructional technology and media for learning. NY NY: Pearson.

Learning Outcomes/Objectives:
- Deepen your understanding and application of the ISTE Educator, Student and Education Leader Standards along with the INTASC principles
- Use educational technology and apps aligning with standards to evaluate and create technology enhanced lessons that will meet the needs of diverse learners
- Become knowledgeable about appropriate instructional resources, materials, and educational technology tools that will support student learning for all students
- Critically examine current research, issues, and trends in educational technology in classrooms and schools
- Learn how to assess students' understandings of content with the use of educational technology to guide your instruction

INTASC
- Use technology to facilitate and inspire student learning and creativity (INTASC Principles: 2, 4, 6)
- Design and develop digital-age learning experiences and assessments (INTASC Principles: 1, 3, 6, 7, 8)
- Model digital-age work and learning (INTASC Principles: 1,6, 10)
- Promote and model digital citizenship and responsibility (INTASC Principles: 6, 9, 10)
- Recognize the importance of continued professional growth and leadership in achieving and maintaining expertise in the use of educational technology (INTASC Principles: 6, 9)

Learning Plan

1. Standards – ISTE, INTASC, CAEP, ESPB (1 week)

2. Exploring Student Learning (3 weeks)
   a. Technology for all Learners: Using Tech Tools to Differentiate Instruction
      i. Diversity, differentiation, equity, and accommodations
   b. The Digital Teacher
   c. The Digital Learner
   d. Effective Learning Environments
   e. Copyright

3. Designing Instruction and Assessing Learning (2 weeks)
   a. Learning Theories
      i. Behaviorist, Cognitivist, and Constructivist
   b. Principles of effective technology use

4. Integrating Technology and Media into Instruction (2 Weeks)
   a. ASSURE

5. Pedagogy and Technology (2 weeks)
   a. Designing Digital Learning Environments

6. Enhancing Learning with Multimedia (2 weeks)
   a. ASSURE case study
7. Resources for Teaching and Professional Development (1 week)

8. What's on the five-year horizon for K-12 schools worldwide? (2 week)
   a. NMC Horizon Report for K-12 Edition

9. Culminating Projects, Presentations & Reflections (1 week)