ITC 5330
Utilizing Networking and Communications Technologies for Learning

Instructor

Readings:

As assigned.

Course Description:

The exploration of telecommunications and social networking in the learning environment. Includes attributes and implementation of learning activities that take advantage of telecommunications/social networking facilities and tools, types of technologies and networks available, setting up connections, and maintaining telecommunications facilities.

Content Outline:

1. Basics of networked computing
   a. Types of networks
   b. Hardware and software
   c. Administering a network for learning settings
2. Introduction to learning environments using telecommunications and social networking
   a. Types of telecommunications and social networking services available
   b. Basic terms and procedures
   c. Distance education learning environments
   d. Educational resources
3. Research on the educational uses of and issues in the use of telecommunications and social networking technologies
4. Developing telecommunications and social networking learning activities
   a. Synchronous
   b. Asynchronous

Goals and Dispositions:

Students will demonstrate knowledge of research in educational applications of telecommunications and social networking technologies and implications for developing good instructional practices.	Read selected articles and engage in discussion with others on their significance.
Students will demonstrate knowledge of using various Internet resources and tools for instructional applications and be able to apply it to the development of learning activities.	Explore and discuss telecommunications and social networking tools, and apply knowledge to class assignments and projects.
Students will demonstrate knowledge of the secure operation and maintenance of the local area and wide area networks that are being established in schools.	Tour local or wide area network closet and discuss facilities and security with local personnel.
Students will demonstrate knowledge in creating telecommunications and social networking projects for classroom use that integrate subject area content with computer technology competencies.	Produce instructional projects utilizing tools explored during course activities.
Students will demonstrate an understanding of issues of online identity, culture, and safety, along with the legal issues surrounding the use of technologies studied.	Read and discuss resources in each of these focus areas.

Correlation to ISTE*C Standards:

- Coach teachers in and model design and implementation of technology-enhanced learning experiences addressing content standards and student technology standards (2.a)
- Coach teachers in and model design and implementation of technology-enhanced learning experiences emphasizing creativity, higher-order thinking skills and

processes, and mental habits of mind (e.g., critical thinking, metacognition, and self-regulation) (2.d)
- Model effective classroom management and collaborative learning strategies to maximize teacher and student use of digital tools and resources and access to technology-rich learning environments (3.a)
- Maintain and manage a variety of digital tools and resources for teacher and student use in technology-rich learning environments (3.b)
- Coach teachers in and model use of online and blended learning, digital content, and collaborative learning networks to support and extend student learning as well as expand opportunities and choices for online professional development for teachers and administrators (3.c)
- Use digital communication and collaboration tools to communicate locally and globally with students, parents, peers, and the larger community (3.g)

Correlation to CAEP Standards:

- A.1.1. Candidates for advanced preparation demonstrate their proficiencies to understand and apply knowledge and skills appropriate to their professional field of specialization so that learning and development opportunities for all P-12 are enhanced, through:
  • Leading and/or participating in collaborative activities with others such as peers, colleagues, teachers, administrators, community organizations, and parents;
  • Supporting appropriate applications of technology for their field of specialization;
  • Application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Student Responsibilities:

1. Participate in class and online discussions concerning issues and topics presented. This will include research into topics outside of text materials and being responsible for presenting and sharing information with other class members. Collaborate with others to extend and share knowledge throughout the course.
2. Complete individual and group projects as outlined on the course schedule.
3. Complete a reflection.
4. Complete other assignments as requested by the instructor.
5. Revise any and all of these assignments to better meet individual needs and goals.

Projects and Activities:

1. Students will select, read and discuss an outside book related to course content. Synthesis of discussions will be posted to the course Discord group. See the list at bottom of the syllabus for suggestions.
2. Students will create instructional activities utilizing different types of Web 2.0/social networking tools.
3. Students will create and share final projects synthesizing their learning in the course.

Tool	Instructional Use
Discord Group	● Weekly sharing of discussions on readings, relevant resources
Google Docs	● Weekly reflections on the readings and project reporting
YouTube	● Sharing of final projects, along with feedback from other course members

Evaluation:

Participation/Engagement	20%
Responses/Reflections	30%
Learning Activities	50%