



GRADUATE CERTIFICATE IN **Classroom Integration of Technology**

Certificate Description

This certificate provides experienced educators who possess a bachelor's degree the ability to enhance specialized knowledge of Classroom Integration of Technology. This certificate provides experienced educators understanding of Class Integration of Technology.

Introduction to Technology and Education—EDU 600—This course introduces students to foundational concepts and skills for personal and professional use of technology including the current edition of Windows Operating System and Microsoft Office. Students will focus on the essential skills required for the use of a multimedia computer, Word, Excel, PowerPoint, e-mail, and the Internet. This course also explores instructional technology, including definition, components of design, and development. The use of technology in the classroom, as well as Distance Education, is covered.

Outcomes:

- Operate and troubleshoot a multimedia computer, peripheral devices, and install software.
- Utilize productivity software such as Microsoft Office and the Internet to communicate, conduct research and develop presentational material.
- Define the emerging role of computers in various settings and the role of Instructional Technology in education.
- Integrate the use of various instructional media and technologies for learning, including classroom presentation tools, computer-based and network-based instructional systems.
- Devise effective strategies for integrating technology into an existing curriculum.
- Identify the unique opportunities and challenges of distance learning.
- Evaluate uses of broadcast instruction, audio-video conferencing and other distance education applications.

Twenty-First Century Learning—EDU 639—This course will discuss web-based tools available free of charge that can be utilized in the classroom by teachers and students. Curriculum integration of these tools will be demonstrated and lesson planning for these types of projects will be taught. Background theory on constructivism will be tied to the development of projects for the classroom. Building foundations for online learning communities will be established. Use of the National Education Technology Standards (NETS) for both students and teachers will be discussed and integrated into evaluation processes.

Outcomes:

- Revise a lesson plan to reflect the constructivist viewpoint.
- Design a curriculum based lesson utilizing at least two (2) web based tools.
- Utilize online presentation tools, create and present a presentation that focuses on effective searching, the use of primary sources and the importance of verifying sources.
- Discuss multiple ways to promote collaborative learning in a traditional classroom using an online word processing program in APA format.
- Develop and design an assessment and evaluation plan for a classroom lesson integrating technology tools.



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Digital Citizenship in Education—EDU 642—This course will concentrate on the unique aspects of online information. How to evaluate online material as opposed to edited and published material, the copyright laws and fair use policy as it applies to online material, safety guidelines when working with children online, as well as proper etiquette online will all be discussed and investigated. Ways to use online tools to gather appropriate information for projects will be addressed.

Outcomes:

- Design and develop a multimedia presentation that discusses generational differences that may impact learning
- Create and use an online collaboration tool such as a wiki to discuss the ethical situations that arise in a classroom utilizing online materials
- Develop a visual and/or audio presentation using free online tools to present the most important issues and suggestions for handling them.
- Develop a lesson plan that incorporates internet strategies to research topics on the internet
- Design and implement a social networking page such as a blog on a topic of current interest to professional educators.
- Set up a search tool such as a RSS to gather information on an educational topic to increase knowledge and write a report

Universal Learning Through Technology—EDU 668—This course will do an in-depth study of Universal Design for Learning. Preparing classrooms to meet the needs of all learners and provide differentiated learning will be investigated. The theory of multiple intelligences and how they affect the use of technology tools will be addressed. A look at the present and future of learning online will be researched.

Outcomes:

- Develop a visual graphic organizer that demonstrates the changing roles of students and teachers in the digital classroom and the effect on planning of instruction.
- Discuss the principles of Universal design for learning and the effect on planning of instruction in a digitally enriched classroom.
- Using differentiated instruction design a lesson plan that incorporates experiential learning based on a topic of their choosing.
- Build a tiered universally designed lesson plan on a subject for a single class period lesson to accommodate a variety of learning abilities and styles within a classroom utilizing technology tools.