Foundations of Teaching with Technology
45 Hours or 3 Graduate Credits

Course Access: Upon enrollment, you have 180 days to complete your online course in our eClassroom. If you have any questions about course access, please email support@cecreditsonline.org, or call 425-788-7275 extension 104.

Course Description

The goal of this course is to provide participants with a foundational knowledge of how to effectively create and teach in a technology-rich classroom environment. The first half of the course is an examination of the relationship between students and technology, how it impacts learning (both positively and negatively), and the evolving roles and skill sets required in order to leverage technology to meet the needs of their students. Once this framework is established, participants will begin an exploration of a variety of web-based tools and mobile applications, evaluating the potential impact that each could have in their classrooms.

Objectives

As a result of this course, participants will:

- Evaluate the potential for technology-enriched instruction to engage and teach today's learners.
- Explore the impact of the Digital Divide on student learning and classroom instruction.
- Define the role of the teacher in creating and managing a technology-rich classroom environment.
- Examine the advantages and disadvantages of implementing various web- and application-based technologies in the classroom.
- Integrate a variety of web-based tools and mobile applications into an instructional unit.

Alignment to the Charlotte Danielson Framework for Teaching

Primary Standards

Domain 1: Planning and Preparation

- 1b - Demonstrating Knowledge of Students
- 1d - Demonstrating Knowledge of Resources

Domain 2: Classroom Environment

- 2b Establishing a Culture for Learning

Domain 3: Instruction

- 3c - Engaging Students in Learning

Domain 4: Professional Responsibilities
- 4a - Reflecting on Teaching

Additional Standards

Domain 1: Planning and Preparation
- 1a - Demonstrating Knowledge of Content and Pedagogy
- 1e - Designing Coherent Instruction

Domain 2: Classroom Environment
- 2c - Managing Classroom Procedures

Domain 3: Instruction
- 3d - Using Assessment in Instruction

Domain 4: Professional Responsibilities
- 4e - Growing and Developing Professionally

Course Components

This course is comprised of interactive presentations, videos, readings, discussion boards, authentic tasks, and a final project. All elements of the course must be completed in order to obtain a letter of completion and/or credits.

Course Outline

Module 1: Learning Theory and Today's Students
- Interactive Presentation: A New Kind of Student?
  - Discussion Board: Students and Technology
- Interactive Presentation: Traditional Learning Theories
- Interactive Presentation: Connectivism
  - Discussion Board: Evolving Theories of Learning

Module 2: The Digital Divide
- Interactive Presentation: What is the Digital Divide?
  - Discussion Board: Evidence of the Divide in Your Classroom
- Interactive Presentation: Impact on Learning
- Interactive Presentation: Impact on Teaching
  - Discussion Board: Challenges and Opportunities

Module 3: The Role of the Teacher
- Interactive Presentation: 21st Century Teaching Skills
  - Discussion Board: Skills Assessment

- Interactive Presentation: Evaluating Technology for Learning
- Interactive Presentation: Changing Teacher Roles
  - Discussion Board: The Roles of Today's Teacher
- Authentic Task #1: Today's Students and Teachers

Module 4: Teaching with the Internet
- Interactive Presentation: Tools for Communication
- Interactive Presentation: Tools for Collaboration
- Interactive Presentation: Tools for Organization
  - Discussion Board: Tool Evaluation
  - Discussion Board: Potential Benefits and Obstacles

Module 5: Teaching with Tablets
- Interactive Presentation: The Tablet Trend
- Interactive Presentation: Apps and Applications
  - Discussion Board: App Evaluation
- Interactive Presentation: Things to Think About
  - Discussion Board: Potential Benefits and Obstacles

Module 6: Teaching with Smartphones
- Interactive Presentation: Tablets vs. Smartphones
- Interactive Presentation: The Case for Smartphones
  - Discussion Board: Smartphone Policy
- Interactive Presentation: Apps and Applications
  - Discussion Board: App Evaluation
- Authentic Task #2: Justification for Mobile Learning

Final Project: Unit Plan
Participants will outline an instructional unit that thoughtfully incorporates several technology tools The unit plan will demonstrate the participant's knowledge of the tools, implementation strategies, and best practices explored throughout the course, as well as an understanding of the unique learning styles, needs, and challenges of his or her students. It will conclude with a reflection of the participant's own teaching philosophy and practices, and what, if any, adjustments they may need to make to effectively deliver the instructional unit.

Grading Policy

100%-90% = A
89%-80% = B
79% and below is Not Passing

Course Component	Percentage of Final Grade

Authentic Tasks (2)	40%
Discussion Boards (12)	25%
Final Project	35%

You must have an 80% average in order to pass and obtain University credit for this course unless your district has specified otherwise.

Compliance with and Commitment to the American Disabilities Act

In compliance with Section 504 of the Rehabilitation Act and the Americans with Disabilities Act, participants who have any condition, either permanent or temporary, which might affect their ability to complete this course, are encouraged to reach out to support@cecreditsonline.org at the beginning of the course. We will make reasonable academic and accessibility accommodations to the course.

Academic Integrity Policy

Honesty is an essential aspect of academic integrity. Individual students are responsible for doing their own work and submitting original assignments as per the course directions. Individual students are responsible for doing their own work. Plagiarism and cheating of any kind will not be tolerated. This includes using information from the Internet without citing the website. Avoid plagiarism by appropriately acknowledging the source of the author's words and ideas.