Course Syllabus:

Supporting UDL and the Common Core Standards with Interactive Whiteboard Systems

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45 Hours or 3 Graduate Credits

Course Description:

This course will introduce you to ways an interactive whiteboard (IWB) system can support Universal Designs for Learning (UDL) frameworks and the Common Core State Standards in subjects across the curriculum. All IWB systems (regardless of brand or configuration) can be powerful instructional tools in the hands of a trained teacher to meet the needs of diverse learners. The first section of this course explores several current themes in instruction including the Common Core Standards, Universal Design for Learning, and measuring effective teaching. The next section provides a brief overview of different IWB systems before digging in deeper to build a strong foundation of IWB skills such as using the basic software tools and integrating other software and hardware. The section following shows how these skills can be integrated into multiple curricular areas including language arts, math, science, social studies, physical education, music, and art. Throughout, there are connections to common core standards in multiple grade levels and UDL differentiation suggestions. In the last section, you will apply your knowledge to create and teach a lesson of your own, using at least seven of the IWB skills you have learned in this course and identify the standard(s) it supports and at least one differentiation extension. This course includes over 40 videos of a credentialed, SMART® certified teacher demonstrating the skills and how they support instruction.

Please Note:
Although having access to any brand of digital whiteboard is not required, it will greatly enhance your learning experience. Most of the software applications referenced are available as free downloadable trials and are compatible with Windows and Mac operating systems.

Most lessons in this course demonstrate hardware and software features through the use of core and auxiliary videos. Core videos, which are embedded in the web page, have been created and professionally produced specifically for this course and feature a digital whiteboard system from SMART Technologies. Auxiliary videos, which can be accessed via web links, have been produced by others and feature different digital whiteboard systems.

Course Objectives: By the end of the course, participants will:
- Recognize the purpose and structure of the Common Core Standards

- Know the rationale and framework to differentiate instruction to meet the needs of all students
- Discover the findings of the latest research on affecting change in teacher practices
- Identify components of an interactive whiteboard system
- Comprehend how to use specific IWB skills including basic operations, manipulating graphics and objects, and integrating peripheral products
- Practice using software used in an IWB system
- Identify how IWB skills covered in this course can be applied to language arts, math, science, social studies, physical education, and art
- Apply skills learned in this course to develop your own lesson that supports support common core standards and differentiated instruction
- Discuss challenges and successes in using interactive whiteboard systems in your classroom

Student Expectations:

This online course is experiential, interactive, and features many streaming video training modules. Participants will complete journal exercises and online assignments. In addition, participants will be expected to practice and use specific skills in their own setting and report the results to the online forum. Participation is necessary for passing the course.

Grading:

- **Forum Post Exercises/ Reflective Journals:** 70% of your final grade
- **Quizzes:** 10% of your final grade. Quizzes may be submitted up to 3 times each and the highest score of the 3 will be used.
- **Final Exam:** 20% of your final grade. **You must receive a score of 60% or greater on the final exam to pass this course.**
- You must have an 80% average to obtain university credit for any course. You must have an 80% average to pass the course unless your district has specified otherwise. If your district has specified a different percentage needed to pass, it will be posted in "Your District Information" in the District section of the site. If nothing is posted, you must pass with an overall average of 80%.
- Forum post exercises will not be approved until your entry has met the minimum approval score of 80%.

Credit:

- For those taking this course for credit, upon completion, the necessary paperwork will be submitted to the university that was selected at the time of purchase. Please see [University Partners](#) on our homepage for more information.
- For those taking this course for a Certificate of Completion, one will be emailed upon successful completion that may kept for your records.

Content Outline/Topics

- Lesson 1: Overview
    - 1.a Objectives
    - 1.b Description of Course Layout
- Lesson 2: Current Themes in Instruction
    - 2.a The Common Core Standards
    - 2.b Universal Design for Learning
    - 2.c Measuring Effective Teaching
- Lesson 3: Interactive Whiteboard Systems
    - 3.a Components of Integrated Digital Whiteboard Systems
    - 3.b Comparison of Digital Whiteboard System Major Brands
    - 3.c Glossary of Terms & Resources
    - 3.d Quiz
- Lesson 4: IWB Skills- Basic Operations
    - 4.a Attaching Links
    - 4.b Managing Pages
    - 4.c Page View Options
    - 4.d Pen Tools
    - 4.e Screen Capture
    - 4.f Shapes, Lines and Eraser
    - 4.g Recording Sound
    - 4.h Basic Operations
- Lesson 5: IWB Skills- Graphics
    - 5.a Gallery: Search Content Types
    - 5.b Gallery: Adding And Managing Your Own Content
    - 5.c Manipulation: Aligning Objects
    - 5.d Manipulation: Attach Link And Sound
    - 5.e Manipulation: Copy, Clone
    - 5.f Manipulation: Drag And Drop
    - 5.g Manipulation: Flip, Order

- ○ 5.h Manipulation: Lock, Group
- ○ 5.i Manipulation: Move, Rotate, Size
- ○ 5.j Manipulation: Selecting Multiple Objects
- ○ 5.k Properties: Fill Effects
- ○ 5.l Properties: Line And Text Styles
- ○ 5.m Graphics
- ● Lesson 6: IWB Skills- Overlay Tools
  - ○ 6.a Use & Modify Lesson Module
  - ○ 6.b Pointer & Screen Shade
  - ○ 6.c Spotlight
  - ○ 6.d Virtual Keyboard
- ● Lesson 7: IWB Skills- Document Camera
  - ○ 7.a Document Camera- Hardware Overview
  - ○ 7.b Document Camera- Native Software
  - ○ 7.c Document Camera- Combination With Digital Whiteboard
  - ○ 7.d Quiz
- ● Lesson 8: IWB Skills- General Activities
  - ○ 8.a Creating Tables
  - ○ 8.b Creating Graphic Organizers
  - ○ 8.c Creating ClipArt for Nonlinguistic Representations
  - ○ 8.d Recording a Procedure
- ● Lesson 9: Language Arts Integration- Editing Marks
  - ○ 9.a Lesson Activity Description
  - ○ 9.b Common Core Integration
  - ○ 9.c UDL Differentiation
  - ○ 9.d Reflective Journal/Forum Exercise
- ● Lesson 10: Math Integration- Measuring Tools
  - ○ 10.a Lesson Activity Description
  - ○ 10.b Common Core Integration
  - ○ 10.c UDL Differentiation
  - ○ 10.d Reflective Journal/ Forum Exercise
- ● Lesson 11: Science Integration- Weather Reports
  - ○ 11.a Lesson Activity Description
  - ○ 11.b Common Core Integration
  - ○ 11.c UDL Differentiation
  - ○ 11.d Reflective Journal/Forum Exercise
- ● Lesson 12: Social Studies Integration- Observing Details in Pictures and Maps
  - ○ 12.a Lesson Activity Description
  - ○ 12.b Common Core Integration

- ○ 12.c UDL Differentiation
- ○ 12.d Reflective Journal/ Forum Exercise
- ● Lesson 13: Physical Education Integration- Sports Strategies
  - ○ 13.a Lesson Activity Description
  - ○ 13.b UDL Differentiation
  - ○ 13.c Reflective Journal Exercise
- ● Lesson 14: Music Integration- Music Notation
  - ○ 14.a Lesson Activity Description
  - ○ 14.b UDL Differentiation
  - ○ 14.c Reflective Journal Exercise
- ● Lesson 15: Art Integration- Technique Demonstration
  - ○ 15.a Lesson Activity Description
  - ○ 15.b UDL Differentiation
  - ○ 15.c Reflective Journal Exercise
- ● Lesson 16: Curricular Integration- Create and Implement Your Own Lesson
  - ○ 16.a Create and Teach a Lesson
  - ○ 16.b Developing Your Practice with Professional Feedback
  - ○ 16.c Reflective Journal/ Forum Exercise
- ● Final Exam

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, create a customer service ticket in the LMS, or call 425-788-7275 extension 104.

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.