

Course Title: **Educational Technology Tool Fundamentals**

Class number 5750 / 6750 3 credits

June 18th - June 22nd 8:00am to 3:00pm

COURSE OVERVIEW AND DESCRIPTION

Teachers have access to a wide array of technology tools to support their teaching. The goal of this training is for teachers to support their classroom instruction, assessment, and curriculum standards with the tools listed below.

Teachers will learn and use the following online tools:

- COGNOS
- UEN Core Standards
- UTIPS
- Pioneer Tools and resources
- Blogs
- Wikis

Teachers will learn and use the following Commercial Software Packages:

- Dreamweaver / Web portal
- Fireworks / Graphics
- Digital Camera and Video in the Classroom
- Excell / Graphing
- Publisher / Desktop publishing
- MovieMaker / Desktop Video

Teachers will learn and use the following hardware components:

- Document Cameras
- Computer projection
- Ipods / mp3 players for podcasting

Course Title: **Assessment of Educational Standards (Backwards Design)**

Class number 5750 / 6750 3 Credits

June 25th to 29th 8:00am to 3:00pm

COURSE OVERVIEW AND DESCRIPTION

Text *Test Better Teach Better the Instructional Role of Assessment* By W. James Popham
ISBN 0-87120-667-6

Understanding by Design by Jay McTighe and Grant Wiggins

Workbook

ISBN: 0871208555

Text

ISBN: 0871203138

Teachers will develop assessment tools that will:

- Identify the objectives and standards from the state core curriculum that students need to master.
- Match standards with classroom curriculum design.
- Assimilate best practices of technology integration with core standards, scored by rubrics for each assignment.
- Develop strategies in designing multiple methods of assessment.
- Apply COGNOS skills to identify student weaknesses and current ability.

Course Title: **Best Practices of Implementing Technology in Education**

Class number 5750 / 6750 3 Credits

Online Summer

COURSE OVERVIEW AND DESCRIPTION

Text *The Multiple Intelligences of Reading and Writing*

By Thomas Armstrong

ISBN 0-87120-718-4

This course will explore the science of good teaching. Students will understand the latest research on how the brain works and how students learn best. Class members will learn the principles and research of Howard Gardner, Thomas Armstrong, Robert Marzano, and Grant Wiggins. They will look at the educational value of project based learning and the constructivist model. This course focuses on practical application for each area of research. The goal is to assist teachers as they apply research. Students will create a lesson for classroom implementation.

Course Title: **Summer Technology Practicum**

Class number 5750 / 6750 3 Credits

9:00am to 3:00pm July 9th to July 20th or July 30th to August 10th

COURSE OVERVIEW AND DESCRIPTION

Targeted students that have low writing abilities will be invited to participate. During the summer practicum teachers will be teamed in pairs and given ten students for a two week summer program to teach word choice in writing. They will use the current research principles and technologies that they have learned in Educational Technology Tools. The two week summer learning program will consist of technology rich experiences and access to a wide range of experiences. For example, students will read a book such as *Wolf Stalker* by Gloria Skurzynski and Alane Ferguson, and while hiking in the back country, they will use GPS locators to track a simulated wolf. The reading becomes real, the writing is meaningful, and the technology integration is purposeful.

The data collection will focus on student achievement. The quantitative data point gathered is from a student writing prompt prepared by the teacher. The prompt will be graded with the Word Choice rubrics from the six traits writing model. The same writing prompt will be administered both as a pre-test and as a post-test at the end of the experience. The pre-identified rubrics will be used to score the writing and then assessed by the teacher to determine gains or loss in word choice.

Course Title: **Using Technology to Create Inquiry Base Lessons**

Class number 5750 / 6750 3 credits

Fall Online

COURSE OVERVIEW AND DESCRIPTION

Purpose

Model and provide an overview of the theory of constructivism and how it might look in the technology-rich classroom. Participants will complete a hands-on activity illustrating the difference between a direct-instruction lesson and an inquiry-based lesson. They will familiarize themselves with a constructivist lesson-plan format and will see an example of a traditional lesson converted into a constructivist format.

Objectives

- Learners will understand the elements of the instructional model.
- Learners will understand the basic elements of constructivism.
- Learners will identify the difference between a direct-instruction lesson-plan format and a constructivist lesson-plan format.
- Learners will develop a list of curriculum topics that could become inquiry-based lessons.

Course Title: **Educational Technology Tool Integration**
Class number 5750 / 6750 3 credits

Fall Online

Text Structures for Cooperative Learning and Active Engagement
By Laurie Kagan and Dr. Spencer Kagan
ISBN 1-879097-61-3

COURSE OVERVIEW AND DESCRIPTION

Teachers have access to a wide array of technology tools to use to support their teaching. The goal of this training is to have teachers collect student produced assignments and generate examples of student assessment. Teachers will share the information with peers through an online discussion board and share technology methods and learning successes that they have in the classroom with middle level students. Cooperative learning structures will be taught and practiced in the classroom. Teachers will post to the online discussion board cooperative learning do's and don'ts.

Expectations

Identify tools that can be used to teach the standards in a one computer (and projector) classroom. Create standards based activities that students will complete while using the technologies in the classroom or lab setting. Use cooperative learning strategies in the classroom with students using technology.

Develop and share the scoring tools they used in the classroom.

Expectations

Explore and apply tools that will enable educators to teach and assess standards based curriculum and use technology tools in the classroom.