## MED 6229

INTRODUCTION TO INSTRUCTIONAL TECHNOLOGY

Skills for Teaching with Technology for Pre-Service Educators

## Credit Hours: 2

**Note: This course supports the content being taught in the pre-service courses at the level of the Licensure Track within the Med Program of study. Understanding how to use and apply instructional technology for teaching is required by the State of Utah. This course is not a lab class for other courses. This course provides foundational skills for teaching with technology in K-12 educational settings.**

**Catalog Description:**

This course allows students to apply existing technology literacy into educational environments to promote use of technology for teaching and instructional support in learning environments. The curriculum is based on teacher skills required to teach Utah State Educational Technology Standards. This is a required course.

**Prerequisite:**

No prerequisite

**Course Outcomes/Objectives:**

WSU teacher preparation conceptual framework theme is Student Achievement: Students, Teachers, and Communities Working Together through programs purposes, philosophy, outcomes and evaluation. There are three overlapping components in the model:  *Reflecting, Engaging, and Collaborating.*  The program standards are performance-based:  that is, they describe what teachers should know and be able to do in order to be awarded a license.  The purpose of this course is to insure students’ technology skills in the use of hardware and software technologies from the level of a computer literacy to the level of teaching with and applying educational technology skills and knowledge in grades K-12 classroom environments. The curriculum in this course supports the pre-service technology skill standards of the Utah Effective Teaching Standards as well as the National Educational Technology Standards for Students (NETS-S) guidelines for technology literacy used by the State of Utah as the foundation for educational technology literacy for students. Utah has adopted the [NETS-S](http://www.iste.org/Content/NavigationMenu/NETS/ForStudents/2007Standards/NETS_for_Students_2007.htm) standards for all students graduating from K-12 schools. As of Fall 2002, all public education K-12 students must either take and pass a Computer Technology course or pass an alternative certification test provided by the State of Utah.

The technology components of the Utah Pre-Service Learning Outcomes for Teacher Candidates are:

* Provide multiple representations and explanations of concepts [through electronic and non-electronic resources] (4 d)
* Use technologies appropriate for the learning goal (7d)
* Adhere to and uphold laws, rules, policies, and directives (10 a)

**Additional standards related the Utah State Educational Technology defined skills for grades K-6 that include:**

1. Understanding of advanced technology operations and concepts (how to use SmartBoard technology; design of multimedia teaching stations)
2. Understanding of social, ethical, and human issues (Review of Copyright Law/Fair Use Guidelines)
3. Use of technology productivity tools (digital movies for teaching, podcasting for teaching)
4. Use of technology communications tools (blogging for teaching and communication to parents)
5. Use of technology research tools (using online resources such as professional networks, Google Scholar, online databases)
6. Using technology problem-solving and decision-making tools (concept mapping software, Rubistar, social networking tools (Twitter)

Each of these critical performance outcomes is assessed primarily through performance-based assignments. Assignments objectives are tied to Educational Technology standards adopted by the State Board of Education

**University Ethics Policy:**

Failure to maintain academic ethics/academic honesty including the avoidance of cheating, plagiarism, collusion and falsification will result in an E in the course and may result in charges being issued, hearings being held, and /or sanctions being imposed.  Any violation of the WSU student code of conduct may result in a failing grade in the course and /or withdrawal of the students admission to the Master of Education Program.

**ADA Statement:**

Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 181 of the Students Service Center.  SSD can also arrange to provide course materials (including this syllabus) in alternative formats if necessary.

### ASSIGNMENTS AND ASSESSMENT

The assignments in this class will provide evidence of your understanding of technology and may become artifacts (examples of instructional materials or events) in an INTASC-based portfolio created for your Level 2 licensure.

These assignments reflect the needed knowledge, skills, and dispositions a K-12 student must have to graduate in the State of Utah and therefore, the knowledge, skills, and dispositions their teachers must also have to teach and work as a professional educator. Rubrics are provided for all assignments and are also displayed on the assignment web pages. The rubrics for the assignments are the final determiner of earned points and the final grade.

Assigned activities for this course include the following topics:

* Gaining a working knowledge of the **Federal Copyright and fair use guidelines that a K-12 educator must know and apply in their classrooms. Show that understanding through proper selection of portions of copyrighted materials for use in lessons as well as proper citation of sources (Assessed on Chi-Tester through case study scenarios)**
* Report to the class on one of the new technologies suggested by the New Media Consortia and submit a one-page overview of that technology.
* Learn how to use Twitter to follow professional blogs and create a blog that could be used in an age/grade appropriate class.
* Create a concept map with Inspiration Software.
* Create a movie or podcast to teach a concept found in the Utah core curriculum and upload to a YouTube account
* Create and peer-teach an age/grade appropriate media enhanced lesson from the Utah Core Curriculum for a K-12 classroom.
  + Use Rubistar to create a multicategory rubric for the lesson
  + Teach with a SmartBoard.
  + Create a SmartResponse clicker test to use with lesson

### 

|  |  |  |
| --- | --- | --- |
| Assignment | Points | |
| Copyright and Fair Use Guidelines  New Media presentation  Teacher blog page and Twitter resources  Concept map  Movie / Podcast and upload  Media Enhanced Lesson Plan (rubric)  Teach interactive lesson with SmartBoard  SmartResponse clicker test  TOTAL | 50  20  50  25  75  50  25  25  320 | Grade awarded based on percentage of possible points earned:  A= 100-97%  A-=96-93%  B+=92-88%  B=87-84%  B-=82-80%  Retake course: 79% or less |