

INST 4010: Tech for Elem. Teachers & INST 3500: Tech for Sec. Teachers

Mondays, 5:15 to 7:45 p.m.

USU Tooele Campus / Distance Education

Instructor: Tom Rathke
Email: tom.rathke@usu.edu
Phone: (801) 540-5958
Web Site: <http://rathke.us/usu/inst4010>
Office: Stansbury High School 135
Office Hours: By Appointment

Course Description:

This course is designed to provide pre-service teachers with a working knowledge of instructional technology and the application of technology to the teaching/learning process. Course involves hands-on experience using a wide variety of technological tools in practical learning environments and an examination of the application of technology as both process and product.

Course Goals:

- Define technology and instructional technology and their role in K-8 instruction.
- Learn and demonstrate competence in basic skills for traditional software programs used in schools today.
- Learn and demonstrate competence in basic skills for emerging software and technology tools in the school environment.
- Apply skills to the educational/classroom environment, with emphasis on technology as a curriculum tool, not topic.

Specific Software Utilized:

- Microsoft Office, OpenOffice.org (open-source office suite)
- Adobe Photoshop, GIMP (open-source image manipulation program)
- Mozilla Firefox, Apple Safari, Internet Explorer, Opera web browsers
- iMovie, Windows Moviemaker, and possibly other digital video editing software
- Audacity (open-source audio editing software... great for podcasting)

Text and Materials:

No text required

Portable storage is highly recommended

- USB flash drive
- CD-R or CD-RW
- Digital video tape (if you want to keep your video footage for posterity sake)
- DVD-R (if you want to make your video into a DVD for home viewing)

These disks can be used for temporary or permanent storage and can be purchased wherever you'd like. You may want to work with classmates, as they're cheaper in bulk.

Calendar:

Date	Friday	Assignments Due
Aug 25	Class intro: UEN & technology, what is it? Software is so expensive! (Or maybe it's free)	UEN Registration (by end of class)
Sep 1	Web Publishing: HTML, XML, PHP, RSS, m-o-u-s-e...	Prensky Reflection Paper
8	Digital Imaging: Everyone's a photographer now-a-days	
15	Graphics: synonyms, antonyms, and what they all mean	Composite Image assignment
22	Web design introduction: You are no one if you're not on the web!	Personal Logo Assignment
29	Video Production, the Prequel: A storyboard and other ways to bring writing into the curriculum	Web Page Assignment
Oct 6	Video Production Part 1, the Sequel: Shooting Begins (film during class or bring your DV tape or .DV file)	Video Storyboard
13	Video Production Part 2: The Editor Strikes Back	Movie.DV file, tape
20	Video Production Part 3: Revenge of the Pod People (FX, the DVDs and the iPod), the end of a trilogy.	
27	Audacity: Did you bring your headphones?	
Nov 3	Podcasting: "you can't study without an iPod, mom"	Audio Editing Assignment (Podcast)
10	The Blogosphere: Not a ball of muck that frogs live on.	
17	Word Processing: Typing isn't what it used to be... (Text tools, Note-taking, Organization, Wikis, oh my!)	My Life Web
24	NO CLASS	
Dec 1	Project Presentations and Final Exam (Intro to online assessments)	Final (counts as assignment)

Quotes: The essence of what you should take from this class

- The nice thing about standards is that there are so many to choose from. -Anonymous
- This telephone has too many shortcomings to be seriously considered as a means of communication. The device is inherently of no value to us. -Western Union internal memo, 1876.
- I think there is a world market for about five computers. -Thomas Watson Sr., founder of IBM, 1943.
- There is no reason anyone would want a computer in their home. -Ken Olson, president and founder of Digital Equipment Corp., 1977.
- Someday computers will weigh no more than 1.5 tons. -Popular Mechanics, 1949
- 640k ought to be enough for anybody. -Bill Gates, CEO of Microsoft, 1981

Grading Guidelines

Description:	% of final grade	Grading Scale
Class assignments: Reflections, In-class exercises	50%	A 100-95% A- 94-90% B+ 89-87%
Individual Project: Create a lesson using one of the technologies learned Present your project to the class as a lesson	25%	B 86-83% B- 82-80% C+ 79-77%
Class Attendance	25%	C 76-73% C- 72-70% D 69-60% F 59%-0%

Assignments (50% of final grade)

As a general rule, assignments are done in class, during class time. Thus class attendance is vital as you will get the background, requirements, and 'know how' for each assignment. There will be some situations where you will need to take time outside of class to finish an assignment.

Each assignment is worth 10 points and will be graded on the following criteria:

4 points	Mechanics	(on time, saved correctly, right program, etc)
4 points	Quality	(effort, thought, and time shown in end product)
2 points	Subjective	(good vs. highly competent)

Attendance (25 % of final grade)

Your attendance and participation is vital in this class. Attendance will be taken for each class session. 10 points will be given for each scheduled class period (150 total). Sickness and other emergencies do happen. Because of this, one grace day will be given for the semester.

Individual Project (25 % of final grade)

50 points See description below

USU Criteria for Make-up of Missed Assignments or Projects:

Students will be allowed to make-up assignments or projects **only** if they meet one of the following criteria:

- A. Incapacitating illness prevents a student from attending classes for a minimum period of two weeks.
- B. A death in the immediate family
- C. Financial responsibilities requiring a student to alter a schedule to secure needed employment.
- D. Change in work schedule as required by employer (with verification) or,
- E. Other emergencies deemed appropriate by the instructor.

If there are extenuating circumstances, a student may petition the instructor for time beyond the deadline. Documentation of the circumstances cited to justify the make-up is required.

Individual Project:

You will complete an individual project during the semester. You must explore the use of a technology in school curriculum. Project may be done as part of your level II practicum. You must clearly demonstrate how technology improves the teaching/learning process. Points will be deducted for projects that 'teach technology' and/or cannot clearly demonstrate how technology improves the teaching/learning process.

I will show you through examples I hand out in class what I am looking for in an individual project. I will do my best to model what the lesson plan and sample project should look like.

You may ask yourself what technology you should focus on. You may choose to further explore a technology we have used in class or something not covered in class. After all, there is more out there than we can cover in one semester. HOWEVER, don't create a project that is blatantly similar to those we have done in class. Be creative!

Your project will include four distinct components:

1. **Lesson Plan:** (10 points)

- 1-4 pages, does not have to be written by you. May be copied.
- Wherever your lesson originates and however it is written, it should contain;
 - How technology is used to enhance the intended learning and outcomes
 - Correlation to specific USOE core curriculum
 - Specific steps
 - Listing of supplies, tools, equipment, and/or software needed.

2. **Example/Product:** (10 points)

- An example, simulated or otherwise, that shows what the outcome of the project looks like.

3. **Reflection Paper:** (10 points)

- 1-2 pages; double spaced: 12 point size font
- Challenges you faced in creating
- Something new you learned
- Time spent (hours/minutes)

4. **Classroom Presentation:** (20 points)

- Demonstrate to the class how you would conduct the lesson.
- You can either demonstrate to us as colleagues or as if we were your students, your choice.

USU 'stuff to include on the syllabus

Academic Integrity - "The Honor System"

Each student has the right and duty to pursue his or her academic experience free of dishonesty. The Honor System is designed to establish the higher level of conduct expected and required of all Utah State University students.

The Honor Pledge: To enhance the learning environment at Utah State University and to develop student academic integrity, each student agrees to the following Honor Pledge: "I pledge, on my honor, to conduct myself with the foremost level of academic integrity." A student who lives by the Honor Pledge is a student who does more than not cheat, falsify, or plagiarize. A student who lives by the Honor Pledge:

- Espouses academic integrity as an underlying and essential principle of the Utah State University community;
- Understands that each act of academic dishonesty devalues every degree that is awarded by this institution; and
- A welcomed and valued member of Utah State University.

Grievance Process (Student Code)

Students who feel they have been unfairly treated [in matters other than (i) discipline or (ii) admission, residency, employment, traffic, and parking - which are addressed by procedures separate and independent from the Student Code] may file a grievance through the channels and procedures described in the Student Code: http://studentlife.tsc.usu.edu/stuserv/pdf/student_code.pdf (Article VII. Grievances, pages 25-30).

Plagiarism

Plagiarism includes knowingly "representing, by paraphrase or direct quotation, the published or unpublished work of another person as one's own in any academic exercise or activity without full and clear acknowledgment. It also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials." The penalties for plagiarism are severe. They include warning or reprimand, grade adjustment, probation, suspension, expulsion, withholding of transcripts, denial or revocation of degrees, and referral to psychological counseling.

Sexual Harassment

Sexual harassment is defined by the Affirmative Action/Equal Employment Opportunity Commission as any "unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature." If you feel you are a victim of sexual harassment, you may talk to or file a complaint with the Affirmative Action/Equal Employment Opportunity Office located in Old Main, Room 161, or call the AA/EEO Office at 797-1266.

Students with Disabilities

The Americans with Disabilities Act states: "Reasonable accommodation will be provided for all persons with disabilities in order to ensure equal participation within the program. If a student has a disability that will likely require some accommodation by the instructor, the student must contact the instructor and document the disability through the Disability Resource Center (797-2444), preferably during the first week of the course. Any request for special consideration relating to attendance, pedagogy, taking of examinations, etc., must be discussed with and approved by the instructor. In cooperation with the Disability Resource Center, course materials can be provided in alternative format, large print, audio, diskette, or Braille."

Withdrawal Policy and "I" Grade Policy

Students are required to complete all courses for which they are registered by the end of the semester. In some cases, a student may be unable to complete all of the coursework because of extenuating circumstances, but not due to poor performance or to retain financial aid. The term 'extenuating' circumstances includes: (1) incapacitating illness which prevents a student from attending classes for a minimum period of two weeks, (2) a death in the immediate family, (3) financial responsibilities requiring a student to alter a work schedule to secure employment, (4) change in work schedule as required by an employer, or (5) other emergencies deemed appropriate by the instructor.