

TECHNOLOGY IN EDUCATION (ICT 614)

Instructor: Eric Sharlow

Email : esharlow@gmail.com, sharloes@potdam.edu

Home: 315-769-2036 (after 6pm)

Mobile: 315-842-8234

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Dunn Hall 210

4:00 –9:00 pm/ 9:00 am – 5:00 pm

Dates: Fridays 1/26,2/9, 3/2

Saturdays 1/27,2/10,3/3

Course Description:

This course is a survey of computer based and non-computer based technologies for use in instructional settings. Although no formal pre-requisite course is required, this course is designed as an intermediate level course, and is **not an introductory course**. Students should be comfortable working with technology, especially computers, and ready to explore intermediate technology topics.

GENERAL COURSE OBJECTIVE:

Upon completion of this course, the student will be familiar with a variety of instructional technologies and apply them to the teaching/learning process. Students will prepare a holistic plan for integrating technology (including, but not limited to, the topics covered in class) into an instructional setting. This will enable the learner to become a creative and reflective educator.

Conceptual Framework

SUNY Potsdam Education Unit follows conceptual frameworks to ensure a Tradition of Excellence in preparing creative and reflective educators. Below are some of the areas of concentration for this course within those frameworks, to assist students to become:

A Well-Educated Citizen by understanding and appropriately using technology to organize thoughts and communicate effectively as will be demonstrated in all projects required in the course.

A Well-Educated Citizen by broadening and developing understanding of ones subject matter as will be demonstrated by the lesson plans and examples submitted for the word processing activity, web quest and presentation.

A Reflective practitioner by effectively using instructional and assistive technology as a teacher's tool and as an instructional tool as will be evident in the adaptive technology, web quest, presentation and final paper.

A Reflective practitioner by effectively applying knowledge of local, state and national standards in promoting inquiry, critical thinking and problem solving in technology related lesson plans.

A Principled Educator by behaving professionally and maintaining a high level of competence and integrity during class discussions and in the work submitted.

A Principled Educator by willing to take risks, and be flexible, work well with others and takes responsibility for ones actions while working on classroom assignments and using laboratory resources.

An educator that is preparing to meet the ISTE standards. These standards are concerned primarily with the curriculum and candidate competencies required for using and coaching other educators in the area of educational communications and instructional technologies (ECIT). The standards encompass : Visionary Leadership, Teaching, Learning and Assessment, Digital-Age Learning Environments, Professional Development and Program Evaluation and Digital Citizenship

SPECIFIC OBJECTIVES:

Upon completion of the course, the student will be able to:

1. Prepare an instructional design and lesson plan that demonstrates the effective use of technology in instruction incorporating web quests, presentations and assistive technology.
2. Identify and use the microcomputer hardware and software appropriate to an educational environment during all course projects.
3. Evaluate the effectiveness of educational hardware and software as related to students with special needs.
4. Describe and demonstrate the application of key Internet and World Wide Web resources in teaching and learning including web quest development and presentation material.
5. Identify the types and describe the use of each of the major groups of educational technologies.
6. Demonstrate an understanding of the critical educational, ethical, and social issues relating to technology in instruction as will be demonstrated in their technology plan.
7. Identify and describe how key emerging technologies are likely to have an impact on education as will be demonstrated in the final project.

Course Materials:

1. **Required: USB drive**
2. **Account Big Huge Labs**
3. **Youtube account**
4. **Google drive account**
5. **MoodleCloud account (will set up in class)**

METHOD OF EVALUATION AND GRADING SYSTEM

Grading Policies:

This course is designed as a project-based course. For that reason, the majority of your grade will be determined by the quality of the projects that you turn in. These are all weighted, as specified below, in determining final grades.

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|--|---------------------------|
| • Web Quest/media 15 pts | date due: Class 2 |
| • Interactive Presentation 15 pts | date due: Class 4 |
| • Audio Project 15 pts | date due: Class 5 |
| • Video Project 15 pts | date due: Class 6 |
| • Assistive Technology Activity 15 pts | date due: Class 3/5 |
| • Final Project 25 pts | date due: Last Class 12/1 |

Course Activities:

Projects:

You must submit a variety of projects to demonstrate your competencies and complete the course requirements. These projects will be organized into and submitted in six different activities.

Assistive Technology Project

This project is a collaborative effort to produce several deliverables to show competence in research, planning and delivery of real world simulations related to meeting special needs of students and/or workers. Each student group will prepare a simulated scenario of a special circumstance that will require a school, business or organization to address accommodations for a specific individual. Adherence to ADA and state regulations will also be included. The components that will be used to show competence will be a research paper, interactive presentation and a video. Students will prepare all projects with the culminating experience presenting to fellow classmates. The presentation will also be set with the audience simulating an external audience. The presentation will have to identify that audience. ISTE standards addressed in this project will include: Standard 3 Teaching, Learning, and the Curriculum Standard 4: Systemic Improvement, Standard 5: Digital Citizenship and Standard 6: Content Knowledge and Professional Growth.

Final Project :

Technology Infused Strategic Plan

The final project will be a technology plan that will be created for a classroom, grade level or individual school. The focus will be to prepare a comprehensive plan that will be presented to a board of education to either enhance or replace existing infrastructure. Hardware and software technologies must be addressed as well as training for students, teachers, administrators and an external audience (PTO, Board members, the general public). The final deliverable will be a paper, based in current research that outlines the plan as well as the presentation. Equitable access must be addressed, as well as assistive technologies.

Grading Scale: This is the grading scale used at SUNY Potsdam. All grades in this course will be marked using this scale, as well as final grades.

Attendance:

You are expected to attend each scheduled class meeting because material covered in the lecture may not be available in the text or readings. .

Participation:

Because of the nature of the course, there will be considerable discussion of course topics. You are expected to voice opinions and ideas as well as participate in regular question and answer sessions.

Course Ethics:

Cheating in any fashion will not be tolerated, including but not limited to plagiarizing another's words, work or ideas on individual class assignments, falsifying records or cheating on exams. You will be held to the college's policy on academic honesty as stated in the Graduate Catalog.

Students with Disabilities:

Students with a disability needing academic adjustments or accommodations should speak with

the professor as early as possible. Students with disabilities should also contact: Sharon House, Coordinator of Accommodative Services at 267-3267, Sisson 112, or e-mail her at housesesh@potsdam.edu for further assistance. All disclosures will remain confidential.

4.0	Excellent	S	Satisfactory (student opted grade)
3.7		U	Unsatisfactory (student opted grade)
3.3		S*	Satisfactory (College determined)
3.0	Good	U*	Unsatisfactory (College determined)
2.7		IP	In Progress
2.3		DGR	Delayed Grade (has not been received)
2.0	Satisfactory		
0.0	Failure	INC	Incomplete

