Eastern Illinois University

New Course Proposal

IST 5330, Integrating Technology into the Classroom Experience

1. Course Description
   a. Course number: IST 5330
   b. Title: Integrating technology into the Classroom Experience
   c. Meeting times and Credit: 3-1-3
   d. Term to be offered: F, S, SU
   e. Short Title: Integrating Tech
   f. Course description: This course will provide opportunities for teachers who are currently teaching to learn how to address the state and national standards for technology integration for students and from themselves professionally. This course will offer pedagogical and instructional strategies to integrate technology into the K-12 classroom.
   g. Prerequisites: Experience with and access to current computer technology.

2. Objectives of the Course
   Students will:
   a. Formulate a working knowledge of, and generate materials related to the International Society for Technology in Education (ISTE) and the Illinois State Board of Education (ISBE) technology standards for students and teaching professionals.
   b. Identify and compile teaching strategies that work well with technology applications in the K-12 setting.
   c. Research and discuss ways to integrate technology into the curriculum.
   d. Identify and operationalize instructional design principles with the goal of constructing technology rich lessons.
   e. Research and create a compilation of technology and software available for application in their area of content.
   f. Review, criticize, and generate a WebQuest.
   g. Select the most appropriate instructional method for a technology rich project for their classroom instruction and create a project based upon this method.

3. Outline of the Course
   Weeks
   a. Introduction of national and state standards, technology integration Pedagogical and instructional strategies 1
   b. Review of the ISTE and ISBE standards related to technology for teachers 1
   c. Review of the ISTE and ISBE standards related to technology for students 1
   d. Role of technology, the teacher and instruction 1
   e. Survey of computer tools and software: what is available Lab I: Review web sites presented, find additional web sites and compile a listing of content specific software/hardware that can facilitate standards-based instruction. 2
   f. Instructional design principles 2
Lab II: Obtain an instructional plan from the Internet and analyze them in terms of types of instructional activities discussed in this section of the course, noting the current research-based evidence of each type of instructional activity and what alternatives can be identified for each type of activity through the use of available instructional technologies.

Lab III: Reviewing the teaching methods and mediums of technology, keep a media reference notebook of your teaching, noting which medium has the most potential for use with a variety of teaching methods. Compile a list of specific methods of teaching that can logically incorporate the widest variety of media and practice incorporating them in specific lessons.

- Project-based learning and project development (1)
- Web Quests (2)

Lab IV: From Bernie Dodge’s web site (http://edweb.sdsu.edu/webquest/webquest.html) select a WebQuest for evaluation purposes, evaluate the WebQuest selected.

Lab V: Utilizing the “Road map for developing WebQuests”, develop your own WebQuest for use in your classroom.

- Technology integration projects (3)
- Project distribution and sharing (1)

Lab VI: Based on criteria established and assignment given, students will distribute projects they have developed utilizing technology integration in their curriculum to their classmates for discussion and presentation.

- Project evaluation (1)

Lab VII: Students will develop a rubric to evaluate the class projects and proceed to evaluate and provide constructive criticism of the projects presented.

Evaluation:
Hands-on experience will be emphasized throughout the entire course. The grades will be based upon the following proportions:

- Class participation: 15%
- Computer lab exercises: 25%
- Research reports: 20%
- Final project: 40%

4. Implementation
   a. Faculty: graduate faculty with appropriate qualifications
   b. Additional costs to students: None
   d. Term to be first offered: Spring Semester 2002

5. Rationale
   a. Purpose and need: The purpose of this course is to introduce graduate students in Education to applications of technology in the educational environment. This course will provide students experience in development of materials for use in the classroom setting. The projects will apply the Illinois State Board of
Education Student Learning Standards as well as the Technology Standards for Teachers. Rapid technological change has significantly modified what teachers are able to do in their classrooms. Many practicing educational professionals are not aware, or have not had the opportunity to learn about and practice utilizing newer technologies.

b. Justification of the course level: A graduate level course is suitable for graduate students who are currently practicing educators who wish to improve their knowledge and skills. The graduate students have the pedagogical knowledge of teaching without necessarily the use of technology. This course will provide students with a skill set to improve their technology applications within a new pedagogical framework using new or modified teaching strategies.

c. Similarity to existing courses: None

d. Requirement or elective: Elective for graduate students in multiple fields of study.

6. **Community College Transfer:** not applicable

7. **Date approved by the Secondary Education and Foundations Department:**

8. **Date approved by the College of Education and Professional Studies Curriculum Committee:** April 23, 2001.

9. **Date approved by the Council of Graduate Studies:** October 16, 2001.