New Course Proposal
IST 5331, Applications of Educational Technology

1. Catalog Description
   (a) Course number: IST 5331
   (b) Title: Applications of Educational Technology
   (c) Meeting times and Credit: 3-1-3
   (d) Term to be offered: S or F
   (e) Short title: Ed. Tech
   (f) Course description: Applications of technology for teaching and learning are introduced. Collaborative teamwork in the design and development, evaluation, and integration of instruction technology and related projects is emphasized.
   (g) Prerequisite: Experience with and access to current computer technology, including e-mail and the World Wide Web.

2. Objectives of the Course
   Students will:
   a. Formulate a working definition of technology, instructional technology, and educational technology.
   b. Identify the potential contribution to learning of various instructional tools, such as computers, the Internet, and video and audio media.
   c. Discuss ways to integrate instructional methods and media.
   d. Discuss learning theories and apply them to the design of instructional technology applications.
   e. Research the characteristics of widely used types of hardware and software for developing instructional applications.
   f. Participate in team efforts to design, develop, and evaluate instructional activities using a systematic process.
   g. Select the most appropriate instructional methods and media for a technology-based lesson.
   h. Select, modify, and/or design instructional materials for a technology-based lesson.
   i. Compare and contrast distance education technologies on the basis of capabilities, advantages, and limitations.
   j. Identify and describe a variety of techniques for evaluating the utility and effectiveness of technology-based instructional applications.
   k. Discuss issues related to copyright law, public domain, and fair use.
   l. Use the Internet and Web for the exchange and transfer of information in digital form.

3. Outline of the Course
<table>
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<tr>
<th>Weeks</th>
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<tr>
<td>1. Introduction of topics: technology; instructional technology; educational technology.</td>
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<td>3. The psychological bases of learning.</td>
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<td>4. Survey of associated technologies/hardware and software.</td>
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<td>Lab I, II, III</td>
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<td>5. Systematic planning of instruction.</td>
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<td>6. Project development using an authoring system; media</td>
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Eastern Illinois University
IST 5331, Applications of Educational Technology

Gibbs: 05/05/03
digitization; project management.
Lab IV, V, VI, VII
Distance learning and telecommunications technologies. 1

7. Product distribution. 1
Lab, VIII

8. Project evaluation. 1
Lab, IX

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: 25%
- Final project: 35%

4. Implementation
a. Faculty: Graduate faculty in Secondary Education and Foundations.

b. Additional costs to students: None.


c. Term to be first offered: Spring Semester 2002.

5. Rationale
a. Purpose and need: The course introduces students to emerging educational technologies (including the World Wide Web) for teaching and learning. It provides a starting point from which to develop students’ technological knowledge and skills by introducing them to commonly used applications software. It presents computers and associated software as tools or means to accomplish instructional and/or classroom managerial tasks. Using the Internet, students explore terms, issues, and problems involved in integrating technology into the learning process. The course also provides students experience in the systematic design, development, and evaluation of technology-based instructional applications and materials.

b. Rapid technological developments have fostered increased reliance on technology within educational settings. It is increasingly necessary for students and teachers to possess proficiency with utilizing technology, including multimedia and Web-based technologies, for delivering instruction, collaborating, researching, communicating, and accessing and distributing information.

c. Justification of the course level: A graduate level course is suitable for practicing or prospective teachers. The course also provides students with knowledge and skills to effectively develop and integrate technology applications into educational settings. Working to create a “real-world” instructional or learning application, students obtain technical and analytical skills as well as experience with collaborative teamwork.

d. Similarity to existing courses: None.

e. Requirement or elective: Elective for graduate students in Secondary Education and
Foundations.

6. Community College Transfer: not applicable.

7. Date approved by the Department of Secondary Education and Foundations:
   March 29, 2001

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

9. Date approved by Council of Graduate Studies: