1. Catalog Description

   a) **Course number**: EDU 2022
   b) **Title**: Teaching and Learning with Technology in Classrooms
   c) **Meeting times and credit**: (2-1-2)
   d) **Term(s) to be offered**: (F, S, SU)
   e) **Short title**: EdTech
   f) **Course description**: This course, based on the national and state educational technology standards, is designed to prepare teachers to integrate technology into the curriculum. This course will focus on the effective use of technology in teaching and learning.
   g) **Prerequisite(s)**: Passing score on the CEPS technology proficiency

2. Objectives of the Course

   The course is designed to address issues in using technology for instruction in P-12 classrooms. At the completion of this course, the students will be able to:

   a) Apply learning technologies that support instruction in their grade levels and subject areas.
   b) Plan and implement instructional units that integrate a variety of software, applications, and learning tools.
   c) Apply and model principles of effective grouping and assessment strategies for diverse populations.
   d) Understand and apply concepts and skills for making decisions concerning the social, ethical, and human issues related to computing and technology.
   e) Understand the changes that occur in informational technology.
   f) Integrate advanced features of technology-based productivity tools to support instruction, extend communication outside the classroom, enhance classroom management, and perform administrative routines more effectively.
   g) Use telecommunications and information-access resources to support instruction.
   h) Use computers and other technologies in research, problem solving, and product development.
   i) Plan and implement team and collaborative projects that require critical analysis and evaluation, and present products developed.
   j) Develop information literacy skills to be able to access, evaluate, and use information to improve teaching and learning.
   k) Engage in collaborative planning and teaching with other educator colleagues and the larger school community.

3. Outline of the Course
The course is based on modules that will be offered as a part of the in-class time as well as web-based independent work. The course will meet 2 times a week (75 minutes) each for 15 weeks. Assignments will be correlated to student’s level of certification.

### Topics

<table>
<thead>
<tr>
<th>Topic</th>
<th>Weeks</th>
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<tbody>
<tr>
<td>a. Introduction to the class International Society for Technology in Education (ISTE) and the Illinois State Board of Education technology Standards for students and teaching professionals and students.</td>
<td>1</td>
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<tr>
<td>b. Telecommunications (ISBE Standard: 6)</td>
<td>2</td>
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<td>c. Creation of materials using productivity software</td>
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<td>(ISBE Standard:7,1, 2)</td>
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<td>d. Evaluation of produced materials</td>
<td>2</td>
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<tr>
<td>(ISBE Standard: 2A, 6C, 7j)</td>
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<tr>
<td>e. Creation of student/teacher made instructional materials</td>
<td>2</td>
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<tr>
<td>(ISBE Standard: 1, 2, 5, 7)</td>
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<td>f. Social, ethical and human issues related to technology and Pedagogical issues related to technology. (ISBE Standard: 4)</td>
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<td>g. Hardware issues (ISBE Standard: 1)</td>
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<td>h. Technology and curriculum integration (ISBE Standard: 2, 3, 8, 7)</td>
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<td>i. Looking to the future, future trends in technology (ISBE Standard: 3, 6)</td>
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### Evaluation of Student Learning:

- **Exams**: 30%
- **Class Participation**: 10%
- **Projects/Presentations**: 60%

Class projects and presentations will include creation and evaluation of materials utilizing technology in a variety of formats. Projects include web based and productivity software projects for use in the classroom.

### 4. Implementation

- **Faculty**: Pat Fewell, Cindy Rich, Denise Reid, Judy Barford, Jeff Duck, and Pam Storm
- **Costs**: Additional sections/faculty.
- **Implementation date**: Fall 2002

### 5. Rationale

- **Purpose and need**: This course is designed to provide future teachers with the skills to use technology for teaching and learning.
- **Justification**: The course will prepare the students for the technology examination beginning in 2003. Students must pass the CEPS technology proficiency prior to taking this class.
- **Similarity to existing course**: The course is a redesign of the current ELE 2022. This new course addresses Level II ISTE standards - methods of teaching with technology. The primary focus of the course is on the integration of technology to improve teaching and learning rather than of basic technology use.
d) **Requirement or elective**: This course will be required for those students in Early Childhood, Elementary, or Middle Level Education. This course may be an elective for other teacher certification majors.

6. **Community College Transfer**
   A community college course may be judged equivalent.

7. **Date approved by the department**: 10/12/01

9. **Date approved by CAA**: