I. Catalog Description and Credit Hours of Course:

This class will explore the integration of technology into specific subject areas, including communication arts, mathematics, social studies, science, physical education, music and art, in the school. (3)

II. Prerequisite(s):

EL210 Integrating Technology into the Classroom

III. Purposes or Objectives of the Course:

By the end of the course, the student will have demonstrated acquisition of the knowledge base and skills necessary to:

A. Describe and demonstrate examples of technology integration into the language arts class.
B. Describe and demonstrate examples of technology integration into the mathematics class.
C. Describe and demonstrate examples of technology integration into the social studies classroom.
D. Describe and demonstrate examples of technology integration into the science classroom.
E. Describe and demonstrate examples of technology integration into the special classes.
F. Describe and demonstrate examples of technology integration into dance, music, theater, and the visual arts.
G. Describe and demonstrate examples of technology integration into vocational education.

IV. Expectations of Students:

A. Students will complete all assigned readings in textbook, handouts and relevant professional journal articles.
B. Students will participate in classroom discussions and activities.
C. Students will demonstrate achievement of course objectives through exams and projects.
D. Students will use instructional technology to develop class-assigned projects.
V. Content or Outline:

A. Designing learning activities using technology
   1. Mastery learning
   2. Conditions of Learning
   3. Constructivism
   4. Multiple Intelligences

B. Choosing appropriate media and materials
   1. Content
   2. Tools, such as appropriate instructional packages, word processing, spreadsheet, database and/or telecommunications
   3. Activities
   4. Learning environments

C. Using teacher-centered technology and student-centered technology lessons

D. Designing literacy lessons with technology integration

E. Designing problem-solving lessons with technology integration
   1. Science
   2. Math
   3. Social Studies
   4. Dance, music, theater, and the visual arts
   5. Communication arts
   6. Special education
   7. Vocational education

F. Designing lessons to teach information using technology
   1. Science
   2. Math
   3. Social Studies
   4. Dance, music, theater, and the visual arts
   5. Communication arts
   6. Special education
   7. Vocational education

G. Using technology for assessment.

H. Designing the classroom for technology

VI. Textbook(s) and/or Other Required Materials or Equipment:


VII. Basis for Student Evaluation:

A. Basic competency demonstration in use of technology, including appropriate software and hardware.

B. Three written tests.
C. Technology-infused lesson plans that include appropriate instructional software, tools such as word processing, spreadsheet, database, and/or telecommunications.

VIII. Knowledge Base:


