

EDX 1201x: Computer-Based Technology in the Classroom

Course Outline

Course Description

EDX 1201x is a comprehensive overview of the use of technology in the educational environment and integration of applications into instruction in the classroom. Topics for study include: computer applications, educational software, critical thinking/problem solving; computer-assisted instruction; and the impact of these technologies on our schools and nation.

Required Textbook and Software

Roblyer, M.D. (2016). Integrating educational technology into teaching. (7th ed.). Boston: Pearson.

Print version: ISBN 13: 978-0-13-379279-9 or ISBN 10: 0-13-379279-X.

e-Book version: ISBN-13: 9780133955583

Microsoft Office 2007, 2010, or newer (Word, Excel and PowerPoint). You can obtain educational pricing from Microsoft directly or from your school district if you are working for one.

Course Objectives

- Upon successful completion of the course, students are expected to:
- Have a basic understanding of computers
- Demonstrate the ability to create an innovative educational project that uses Microsoft Office to teach a classroom project or lesson; and
- Produce interactive, technology-based lesson plans, learning activities, and multimedia presentations aligned to State Standards.

Course Requirements

- NETS Self-Assessment
- Software Grant with Excel Budget and Proposal
- Class Newsletter
- Copyright and Fair Use Brochure or Poster
- CyberSafety PowerPoint Presentation
- TIP Analysis
- Technology Lesson Plan with Rubistar Rubric
- Class participation, discussion, interaction

Assignment List

| Week | Assignment |
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| 1 | Assignment 1: NETS Standards Self-Evaluation (100 points) Discussion Board: Essential Conditions for Technology Integration (20 points) Introduction |
| 2 | Assignment 1: Technology Grant: Spreadsheet and proposal letter (150 points) Assignment 2: Class Newsletter (100 points) Discussion Board: Teaching and Learning with Tech in Subject Areas (20 points) |
| 3 | Assignment 1: Copyright and Fair Use Three-Fold Brochure (100 points) Assignment 2: CyberSafety Presentation (150 points) Discussion Board: Educational Website Activity (20 points) |
| 4 | Assignment 1: Technology Lesson Plan focused on PBL with Rubric (200 points) Assignment 2: Post Lesson UDL Analysis (80 Points) Discussion Board: TIP and Lesson Plan Ideas (20 points) |