**Course Outline**

**Course Title:** Computers & Technology in Education  
**Submitted By:** Dawn Olson & Sara Matuszak  
**Semester Course Prefix and Number:** EDUC 1416  
**Old Quarter Course Prefix and Number:**  
**Approval Date:** March 2010  
**Revision Date:**  
**Number of Credits:** 2  
**Number of Lecture Credits:** 2  
**Semester(s) Offered:** Fall  
**Class Size:** 35  
**Negotiated by AASC on:** (date)  
**Number of Lab Credits:**  
**Number of Lab Hours:**  
**Number of Studio/Demonstration/Internship Credits:**  
**Number of Studio/Demonstration/Internship Hours:**  
**Catalog Description:**

This course provides a hands-on introduction to utilizing computers and technology to enhance teaching and learning in an educational setting. In addition, it addresses ways in which technology may be used as an effective tool to differentiate learning in order to meet the needs of all learners. A brief exposure to assistive and adaptive technologies will also be introduced.

**Prerequisites and/or recommended entry skills/knowledge:**

- **Course Prerequisite(s):**
- **Reading Prerequisite:**
- **Composition Prerequisite:**
- **Mathematics Prerequisite:**

**Career Programs and Transfer Majors Accessing this Course:**

Human service professionals, Early Childhood and Elementary Educators, Parent Educators, Paraprofessionals, and Child Care Providers

**Minnesota Transfer Curriculum Goal(s) partially met by this course if applicable:**

(Notes: No more than two goals may be met by any one course. Curriculum Committee review and the Chief Academic Officer’s approval are required.)

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<th>Goal</th>
<th>Description</th>
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<td>0.</td>
<td>None</td>
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<tr>
<td>1.</td>
<td>Communications</td>
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<td>2.</td>
<td>Critical Thinking</td>
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<td>3.</td>
<td>Natural Sciences</td>
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<td>4.</td>
<td>Mathematical/Logical Reasoning</td>
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<td>5.</td>
<td>History and the Social and Behavioral Sciences</td>
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<td>6.</td>
<td>The Humanities and Fine Arts</td>
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<td>7.</td>
<td>Human Diversity</td>
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<td>8.</td>
<td>Global Perspectives</td>
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<td>9.</td>
<td>Ethical and Civic Responsibility</td>
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<td>People and the Environment</td>
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**Learning Outcomes:** (including any relevant competencies listed in the Minnesota Transfer Curriculum)
Upon completion of this course, the student will be able to:

- Describe the progression of computers and technology in education
- Discuss the benefits and limitations of computers and technology in the classroom
- Articulate a personal philosophy for the use of computers and technology in the classroom
- Demonstrate the ability to use the following: graphic software, Power Point, online instructional format, digital camera, Flip camera, internet, scanner, Smart Board, Microsoft Excel/Access, and eFolio
- Produce lesson plans that incorporate the use of technology
- Identify best practices for the use of computers and technology in the classroom

**Student Assessment Methods:**

Examinations
Lesson Plan
Demonstration

**Use of Instructional Technology:** (includes software, interactive video and other instructional technologies):
D2L Instructional Format, digital camera, flip camera, scanner, software, internet, Smart Board and eFolio

**Outline or Statement of Major Course Content:**

- History of technology and computers in education
- Developing a personal philosophy for the use of computers and technology in the classroom
- Developing hands-on skills using a variety of technologies
- Using computers and technology to meet the needs of all learners
- Assessing the curriculum to embed computers and technology
- Designing instruction to include computers and technology
- Using computers and technology to collect, analyze, summarize and report student work

**Additional Special Information:** (special fees, directives on hazardous materials, etc.)

**Transfer Information:** (Please list colleges/majors that accept this course in transfer.) UMD Early Childhood/Unified Program and UMD Elementary Education.

**Approvals:**

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<tr>
<th>Body</th>
<th>Representative Signatures</th>
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<tbody>
<tr>
<td>Curriculum Committee</td>
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**Distribution:** Original – Administrative Office
**Copies:** Curriculum Committee Chair, AASC Chair, Transfer Specialist, Originating Faculty Member, Scheduler, Records
**Revised:** May 2009