

## Eastern Mennonite University

### Computers and Technology in Education

#### **ED 201a**

Spring Semester 2013

Office Hours: T 9:25-10:40; TR 1:00-2:15

Cell Phone: 540-746-0012 (until 9 p.m.)

**Instructor:** Sandy Brownscombe, Ed. D.

Office: CC 210

Office Phone: 432-4368

Email: [sandy.brownscombe@emu.edu](mailto:sandy.brownscombe@emu.edu)

**Class Schedule:** Required Class Meeting Time: M 7 (7:00-7:50 p.m.)

Optional Lab for extra help on Monday Evening from 8:00-9:00 p.m.

#### **Course Description:**

The purpose of this course is to provide preservice teachers instruction on how to use computers and technology in the 21<sup>st</sup> century classroom. Students taking this course will be expected to develop proficiency in the following environments: word processing, spreadsheets, drawing/graphics, PowerPoint/Prezi presentations, SmartBoard, iPads/iPods, web page design, Google Docs, iPhoto, iMovie and wireless communication. Classroom newsletters and design layouts, grade reporting, multimedia presentations and digital storytelling assignments use technology to enhance student learning and increase teacher effectiveness. Students will be expected to utilize the skills gained in this course throughout the remainder of their education program at EMU. Students will show evidence of their ability to utilize technology in the development of their Teacher Education Admission and Student Teaching Portfolios. Successful completion of this course prepares students to meet Virginia Technology Standards for School Personnel and the EMU Education Technology Standards for Instructional Personnel Indicator Checklist.

#### **Teacher Candidate Performance Outcomes:**

The successful teacher candidate is able:

**Scholarship:** to acquire knowledge through the liberal arts, Core General Education Curriculum and specialty area studies and to organize and integrate that knowledge across disciplines and cultures.

**Inquiry:** to generate questions and to use critical thinking to self-assess, to view problems collaboratively and from multiple perspectives, and to make informed, research-based decisions to enhance student learning.

**Professional Knowledge:** to demonstrate pedagogical and professional knowledge in order to create, manage, and assess diverse environments conducive to learning and setting high expectations.

**Communication:** to acquire and use knowledge of effective verbal, nonverbal, and technological communication strategies to support student learning, to solve problems, and to create peaceable climates.

**Caring:** to develop a nurturing spirit that honors diversity, advocates for students, integrates Christian faith and ethics, and promotes peacebuilding in diverse settings.

**Leadership:** demonstrate high aspirations for themselves and their profession and to influence positive change in educational settings.

### Course Objectives:

The following are the computer/technology literacy endorsement guidelines, as supported by ISTE (<http://www.iste.org/standards/nets-for-teachers.aspx>) and the EMU Teacher Education Outcomes (<http://www.emu.edu/education/mission/>). Program outcomes are referenced in parentheses following each course objective.

Effective teachers model and apply the National Educational Technology Standards for Students (NETS•S) as they design, implement, and assess learning experiences to engage students and improve learning; enrich professional practice; and provide positive models for students, colleagues, and the community. All teachers should meet the following standards and performance indicators. Teachers:

1. **Facilitate and Inspire Student Learning and Creativity** Teachers use their knowledge of subject matter, teaching and learning, and technology to facilitate experiences that advance student learning, creativity, and innovation in both face-to-face and virtual environments. (Ca; PK; C; I)
2. **Design and Develop Digital-Age Learning Experiences and Assessments** Teachers design, develop, and evaluate authentic learning experiences and assessment incorporating contemporary tools and resources to maximize content learning in context and to develop the knowledge, skills, and attitudes identified in the NETS•S. (PK; C)
3. **Model Digital-Age Work and Learning** Teachers exhibit knowledge, skills, and work processes representative of an innovative professional in a global and digital society. (PK; C)
4. **Promote and Model Digital Citizenship and Responsibility** Teachers understand local and global societal issues and responsibilities in an evolving digital culture and exhibit legal and ethical behavior in their professional practices. (S; C; PK)
5. **Engage in Professional Growth and Leadership** Teachers continuously improve their professional practice, model lifelong learning, and exhibit leadership in their school and professional community by promoting and demonstrating the effective use of digital tools and resources. (C; PK; L)

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### Course Evaluation:

|                 |                                                                                                                                                                    |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A 95-100 points | The following final grades do not meet department requirements:<br><a href="http://www.emu.edu/education/3steps.html">http://www.emu.edu/education/3steps.html</a> |
| A- 91-94 points |                                                                                                                                                                    |
| B+ 87-90 points |                                                                                                                                                                    |
| B 83-86 points  | C- 68-69 points                                                                                                                                                    |
| B- 80-82 points | D+ 66-67 points                                                                                                                                                    |
| C+ 78-79 points | D 58-65 points                                                                                                                                                     |
| C 70-77 points  | F 0-58 points                                                                                                                                                      |

## **Important Notices:**

- *Attendance is required and expected at every class meeting.* If an emergency comes up that prevents you from attending class, please contact Sandy directly via email or text (540-746-0012) PRIOR to class (athletes each missed class will be reported to the athletic department).
- To receive full credit for an assignment: *All deadlines must be met and ALL websites and resources must be appropriately cited.*
- *Please read your EMU email account on a daily basis*, as this is primary way that the education department and I communicate with you outside of class.
- Completing electronic course evaluations are your choice, however I would like to *strongly* encourage you to complete your course evaluation to allow me to continually make improvements to this course.
- *Active participation on our MOODLE site is expected.* Though points are not designated for this participation, it could be the difference in your final grade, if you are within a point of reaching a higher grade.

## **Academic Integrity**

Academic Integrity Policy (AIP): EMU faculty and staff care about the integrity of their own work and the work of their students. They create assignments that promote interpretative thinking and work intentionally with students during the learning process. Honesty, trust, fairness, respect, and responsibility are characteristics of a community that is active in loving mercy, doing justice, and walking humbly before God. EMU defines plagiarism as occurring when a person presents as one's own someone else's language, ideas, or other original (not common-knowledge) material without acknowledging its source. (Adapted from the Council of Writing Program Administrators). [Taken from "Academic Integrity," 2012-13 Undergraduate Catalog.] This course will apply EMU's AIP (see catalog, pp. 16-19) to any events of academic dishonesty.

## **Disability Statement**

If you have received services in the past related to a learning disability or attention deficit disorder and/or feel you may have such a problem in this course, please make an appointment to speak with the instructor during office hours or with the Coordinator of Student Disability Support services in the Academic Support Center, 3<sup>rd</sup> floor of Sadie Hartzler Library, 432-4233.

## **Writing Tutors**

Please take advantage of the free individual tutoring from our writing tutors. Writing tutors are strong writers who hold scheduled one-on-one sessions with students and are an excellent resource for writers at any level or at any stage in the writing process. Please remember that writing tutors do not provide an editing or proofreading service. They will help you put what you learn into practice and will work with you to improve your own proofreading and editing skills. To make an appointment, please access [ASC Tutoring](#) (also accessible through myEMU).

## Early Graded Experience

First and second-year students enrolled in this course will receive a grade of satisfactory (SA), warning (WA), or UN (unsatisfactory) after the fourth week of the semester. This grade is intended to provide students with feedback on their academic performance and engagement in this course. Students who receive a WA or UN grade will be expected to discuss with me, within one week of receiving their grades, plans for improving their performance in this course.

## Course Assignments

1. **Photo Booth/iPhoto Introduction..... 5 points**  
Using Photo Booth and iPhoto, create a 3 to 5 frame comic in a Microsoft Word document to introduce yourself and the content area you are interested in teaching. Save your final product as a pdf and submit in Moodle.  
**DUE: Monday, January 14, 2013 by 7:00 p.m.**
2. **Caregiver Communication Newsletter\*\*\* .....10 points**  
Using word processing and graphic design skills the student will create a classroom newsletter in Microsoft Word designed to give to their students to take home to their caregiver(s) on the first day of school. The newsletter should be saved for submission in your Teacher Education Admission Portfolio as the Caregiver Communication.  
**DUE: Monday, January 28, 2013 by 7:00 p.m.**
3. **Classroom Layout .....10 points**  
Use graphic design and word processing skills to design a classroom layout in SmartBoard Notebook and discuss why you have chosen to structure your classroom to reflect best practices. **DUE: Monday, February 4, 2013 by 11:55 p.m.**
4. **Spreadsheet/Gradebook/Mail Merge.....15 points**  
Using spreadsheet skills the student will compile a class roster of "essential information" of student records and construct an electronic grade book to sort data and assign grades using Excel Spreadsheet and send a letter to Caregivers using Mail Merge.  
**DUE: Monday February 25, 2013 by 11:55 p.m.**
5. **IEP Times "Google Docs" Interview.....10 points**  
Meet with your assigned IEP student to interview and write an introduction article for the IEP Times. Create a Google Docs document with your IEP partner to write and edit the article with your IEP partner.  
**DUE: Monday, March 11, 2013 by 7:00 p.m.**
6. **iPad Small Group Learning Activity .....10 points**  
With a partner create an iPad Small Group Learning Activity to teach or review a concept connected to a VA SOL in your content area. The iPad app you choose needs to be interactive and allow your students to review and reinforce developmentally appropriate content. **DUE: By 7:00 p.m. Monday the week following your assigned lab session**

7. **Prezi/Power Point .....10 points**  
Students will demonstrate an understanding of presentation format utilizing Prezi or Microsoft PowerPoint to present a topic linked to a VA SOL to K-12 students. Share your Prezi with Sandy Brownscombe during class on **Monday, March 18, 2013 ppt due by 7:00 p.m.**
8. **Digital Storytelling.....10 points**  
In a group of **three** create a digital storytelling video to teach a concept connected to a VA SOL. Your digital story should include the seven elements of digital storytelling including music, and last at least 3 minutes and be saved as a Quick Time Movie.  
**DUE: Monday, March 25, 2013 by 7:00 p.m.**
9. **Portaportal Webpage Development..... 5 points**  
Develop a personal **portaportal** page listing websites for your classroom. Your portaportal page needs to include at least 15 websites in 3 different categories. Share your portaportal with Sandy Brownscombe during class on **Monday, April 8, 2013**  
**Portaportal site:** <http://guest.portaportal.com/brownscombs>
10. **SmartBoard Learning Activity (Final Exam).....10 points**  
Using SmartBoard Notebook software and include response questions using SmartBoard Senteos collaborate with a colleague to develop a learning activity for a specific VA SOL to be used in your classroom. You will present your learning activity and give your assessment to the class during the final exam period.  
**DUE: Thursday, April 25, 2013 at 7:00 p.m.**
11. **EMU Entry Technology Standards\*\*\* ..... 5 points**  
Submit your Entry Technology Standards for assessment to document completion of this course. Students that have previously submitted technology standards should resubmit the standards and to have the Entry Technology standards assessed to document completion of the course.  
**DUE: Thursday, April 25, 2013 by 7:00 p.m.**

**\*\*\*Assignment is part of your the Teacher Education Admission Portfolio. Please keep an electronic copy or you will need to recreate this assignment to submit as part of your Teacher Education Admission Portfolio.**

## Tentative Class Schedule

| Week                         | Content and Assignment                                                                                                                                                                                                                                                                                                               |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Monday<br>January 7          | Introduction to course, MAC Lab, Microsoft Word, saving on the EMU network, Wed 2.0<br><a href="http://www.youtube.com/watch?v=YmwwrGV_aiE">http://www.youtube.com/watch?v=YmwwrGV_aiE</a> , <b>Photo Booth &amp; Portaportal site:</b> <a href="http://guest.portaportal.com/brownsocs">http://guest.portaportal.com/brownsocs</a>  |
| Monday<br>January 14         | Introduction to <b>Word Processing-Newsletters:</b> Acceptable use policies for EMU and Rockingham County Public Schools (RCPS) <b>Copyright laws and ethical issues, EMU and RCPS Technology Standards for Instructional Personnel</b> , VDOE Guidelines for the Prevention of Sexual Misconduct & Abuse in Virginia Public Schools |
| Monday<br>January 21         | Overview of <b>Constructivist and Collaborative Principles and Technology</b> and <b>Intro to VA SOL</b><br><a href="http://www.doe.virginia.gov/testing/sol/standards_docs/index.shtml">http://www.doe.virginia.gov/testing/sol/standards_docs/index.shtml</a> ,<br>Introduction to <b>Google Docs</b>                              |
| Monday<br>January 28         | <b>Obe Hostetter</b> , ITRT Rockingham County Schools will demonstrate iPads/iPods and other cool stuff                                                                                                                                                                                                                              |
| Monday<br>February 4         | Intro to <b>SmartBoard Notebook:</b> create a Classroom Layout using SmartBoard Notebook drawing and graphics <b>Early Graded Experience Grades</b>                                                                                                                                                                                  |
| Monday<br>February 11        | Intro to <b>Spreadsheet</b> and <b>Gradebook</b> development—the effective use of Excel Spreadsheet in your classroom                                                                                                                                                                                                                |
| Monday<br>February 18        | No Class-Meet with IEP partner to complete your Google Docs Document                                                                                                                                                                                                                                                                 |
| Monday<br>February 25        | Mail Merge and using Microsoft Word and excel to enhance student learning                                                                                                                                                                                                                                                            |
| Monday<br>March 4            | <b>Spring Break—No class</b>                                                                                                                                                                                                                                                                                                         |
| Monday<br>March 11           | Introduction <b>Prezi or PowerPoint Presentations</b> —Keys to effective multimedia presentations <b>Internet Safety</b> & assignment                                                                                                                                                                                                |
| Monday<br>March 18           | Introduction to <b>digital cameras and Digital Storytelling.</b> iPhoto, iMovie, Garage Band; <b>Prezi Presentations Due</b>                                                                                                                                                                                                         |
| Monday<br>March 25           | <b>Digital Storytelling project due;</b> Introduction to <b>FaceTime</b>                                                                                                                                                                                                                                                             |
| Monday<br>April 1            | <b>Easter Break—No Class</b>                                                                                                                                                                                                                                                                                                         |
| Monday<br>April 8            | Introduction to <b>SmartBoard Interactive Assignment</b> and the <b>SmartBoard Senteos; Portaportal due</b>                                                                                                                                                                                                                          |
| Monday<br>April 15           | Introduction to <b>EMU Technology Standards</b> and <b>SmartBoard Interactive</b> Group Work                                                                                                                                                                                                                                         |
| <b>Thursday<br/>April 25</b> | <b>FINAL EXAM: SmartBoard Interactive presentations</b> and <b>Technology Standards Due @ 7:00 p.m.</b>                                                                                                                                                                                                                              |