Eastern Illinois University Department of Early Childhood, Elementary, and Middle Level Education EDU 2022: Teaching and Learning with Technology in Classrooms

Instructor: April Flood Office: Buzzard 2207 Email: adflood@eiu.edu

Office Hours: Monday/Wednesday 12:30 p.m. – 1:30 p.m.; Tuesday/Thursday 2:30 p.m. – 3:30 p.m.

Phone: 217-581-5728 (Messages Only)

Class Meetings: Mondays/Wednesdays from 11 a.m. – 12:15 p.m.

Semester: Spring 2017

Unit Theme: Educator as creator of effective educational environments, integrating diverse students, strategies, societies, subjects, and technologies.

Course Description: (2-1-2) 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.

Course Purpose: EDU 2022 is structured to offer teacher candidates opportunities to:

- 1. Practice and expand personal use of various kinds of hardware and software.
- 2. Use technology in the design of curriculum for constructivist teaching and learning.
- 3. Apply learning theory to evaluate quality technology experiences.
- 4. Make informed judgments about social and ethical issues involving technology.
- 5. Develop strategies and commitment to explore new and emerging educational technologies.

Textbook:

Cennamo, K., Ross, J. D., & Ertmer, P. A. (2014). Technology integration for meaningful classroom use: A standards-

based approach. (2nd ed.) Belmont, Calif.: Wadsworth.

Supplemental Materials:

Flash drive

Teaching Models:

The Information-Processing Models

• Information-processing models emphasize ways of enhancing the human being's innate drive to make sense of the world by acquiring and organizing data, sensing problems and generating solutions to them, and developing concepts and language for conveying them (pp 10-13).

Joyce, B., Weil, M., & Calhoun, E. (2015). Models of teaching. (9th ed.). Boston: Pearson.

Dispositions: Candidates in the Department of EC/ELE/MLE will exhibit professional ethical practices, effective communication, sensitivity to diversity, the abilities to provide varied teaching practices evidenced in a supportive and encouraging environment.

Standards

Course requirements are aligned with the following standards:

- Illinois Professional Teaching Standards (IPTS): http://www.isbe.net/PEAC/pdf/IL_prof_teaching stds.pdf
- Eastern Illinois University Professional Dispositions
 http://www.eiu.edu/clinical/forms/DispositionsforEIUcandidates.pdf
- Illinois Social Emotional Learning Standards (SEL) http://www.isbe.net/ils/social_emotional/standards.htm
- Association for Childhood Education International (ACEI): http://www.isbe.net/rules/archive/pdfs/20ark.pdf
- National Association for the Education of Young Children (NAEYC):

http://www.ncate.org/Standards/ProgramStandardsandReportForms/tabid/676/Default.aspx

• Association for Middle Level Education:

 $\underline{http://www.amle.org/AboutAMLE/ProfessionalPreparation/AMLEStandards.aspx}$

Course requirements and demonstrated competencies are aligned with the following standards:

- Nets Standards for Teachers: ISTE National Technology Project: http://www.iste.org/Content/NavigationMenu/NETS/ForTeachers/2008Standards/NETS for Teachers 2008.htm
- NETS Standards for Students: ISTE National Technology Project: http://www.iste.org/Content/NavigationMenu/NETS/ForStudents/2007Standards/NETS for Students 2007.htm

Course Outcomes

Students will be able to:

- 1. Review research studies of the effects and impact of technology on learning.
- 2. Evaluate ethical, legal and social equity issues pertaining to the impact of technology
- 3. Apply terminology of the field, including Web 2.0
- 4. Use, explore, and apply telecommunications opportunities: html editors as appropriate for teaching professionals, course management systems, videoconferencing, webcasts
- 5. Use and apply word processing, database, presentation and spreadsheet programs relating to teacher administration and the curriculum of elementary and middle schools.
- 6. Create multimedia learning options, especially interactive whiteboard (SmartBoard) tools and applications
- 7. Review and apply criteria to evaluate and select blogs, wikis, Web sites, educational software.
- 8. Design and produce appropriate technology supported instruction.
- 9. Reflect on the development of computer technology over time and implications of this history for instruction.
- 10. Practice strategies for continuous updating of computer literacy for teachers and students.
- 11. Practice ergonomics and proper care of computers and peripherals.
- 12. Design and maintain your own professionally appropriate website.

COURSE REQUIREMENTS	DEMONSTRATED COMPETENCIES	ALIGNED STANDARDS
PRODUCTIVITY	Performance includes: Creation, editing, evaluation of appropriate professional documents in text and multimedia. Application of spreadsheet, database, presentation, and communications programs to classroom tasks. Focus is on demonstration of computer literacy, integration literacy and fluency, information literacy and fluency.	ISTE Standard 2 IPTS 1G, 2L Dispositions:PEP, PTSL
WEB PRESENCE AND WEB 2.0	Performance includes: Review and evaluation of active, teacher maintained classroom Web pages. Creation and use of a personal professional Web site, posted to individual student's account on the EIU pen server. Creation and use of selected personal accounts with such programs and participatory services as a blog, wiki, discussion boards, delicious, flickr, digg, twitter, google docs., etc. Focus is on participation in and creation of cyber environments for education. The students will also learn how to edit video to record their own performance and save in appropriate formats (.avi, .qt,.mov, .mp4, or .wmv)	ISTE Standard 3 ACEI, 3.5 SEL: 2C IPTS 2F, Dispositions: PEP, EC
CURRICULUM INTEGRATION	Performance includes: Creation of a themed curriculum sequence based on a student selected <u>essential question</u> appropriate for the classroom. The themed curriculum project may include: Introduction and rationale based on Internet research, site evaluations, podcast, Inspiration concept map, Excel graph, webquest evaluated or created, video evaluated or created, Turning Point (student response system), handheld activities, SmartBoard activities. (Instructors may select standalone curriculum applications outside of the themed sequence.) Focus is on integrating and implementing several classroom technologies to investigate and present a single area of inquiry for diverse learners. Elements will be posted to the student's EIU (pen) website using file transfer protocol.	ISTE Standard 1 NAEYC 4b, 4c ACEI 3.1, 3.4, 4.0 AMLE 2 SEL: 2C IPTS 1G, 2F, 2L, 3E, 3N, 5C, 5N Dispositions: PTSL, SDE
DIGITAL CULTURE, CONTEXT AND	Performance includes: Analysis of turning points and trajectories in computer history, present trends, terminology, and review of	ISTE Standard 4 ACEI 1.0, 5.1

IMPACT	research, understanding and committing to strategies for keeping abreast of developments in educational technology. Focus is on critical understanding of the role of technology in today's global society and attention to outside influences on classrooms.	AMLE: 4 SEL: 3C IPTS 3E Dispositions: SDE
DIGITAL CITIZENSHIP	Performance includes research and commitment to the welfare of society and of all children and youth Student may investigate the following technology-based issues: Assistive technology, copyright (RIAA & MPAA) and creative commons, net safety, privacy and security, AUP/CIPA and appropriate use, digital divides (economics, gender, race), job loss, Internet addiction, cyber bullying, social networking, gaming, real vs. Virtual libraries, virtual classrooms and online coursework, artificial intelligence, corporate controls, technology and health, technology and environment. Focus is on teachers as leaders by modeling best practice in educational technology.	ISTE Standard 4, 5 ACEI 5.1 IPTS 9S, 9T SEL: 3A, 3C Dispositions: PEP, SDE
PARTICIPATION	Performance includes display of professional dispositions, thoughtfulness, communication, and attention to course projects, assignments, and inquiries, prompt submissions, perfect attendance. Focus is on evident desire for excellence in teaching and learning with technology in classrooms.	ISTE Standard 5 ACEI 5.1, NAEYC 5 IPTS 9H Dispositions: PEP, EC
EVALUATIONS	The students will demonstrate their content knowledge of effective integration of technology in the classroom by completing assessment tools.	ISTE Standard 2 IPTS 1G, 2F, 3E NAEYC 4b Disposition: EC

CORE ASSIGNMENTS	DESCRIPTION	POINTS/DUE DATE	WEIGHTS
PRODUCTIVITY	Instructor will select classroom related projects created with word processing, publishing, spreadsheet, database, presentation, graphics, and communications programs.	100 points Bookmark (20 points) Newsletter (20 points) Paint (20 points) Excel (20 points) Database (20 points)	10%
WEB PRESENCE AND WEB 2.0	Instructor will select classroom related projects: Review of active, teacher maintained, classroom Web pages. Creation and use of a personal professional Web site, posted to individual student's account on the EIU pen server using a file transfer protocol. Creation and use of selected personal accounts with such programs and participatory services as a blog, wiki, discussion boards, delicious, Flickr, digg, twitter, google docs., etc.	Index page (25 points) Educational Links (25 points) Blog (25 points)	15%

		Wiki (25 points) Twitter (25 points) Google apps (25 points)	
CURRICULUM INTEGRATION	Students will develop a themed curriculum sequence based on a student selected <u>essential question</u> appropriate for the classroom. Instructors will select elements of the themed curriculum project. Included may be: Introduction and rationale based on Internet research, site evaluations, podcast, Inspiration concept map, Excel graph, webquest evaluated or created, video evaluated or created, PPT with Turning Point (student response system), handheld activities, SmartBoard activities, computer generated books. Instructors may select stand-alone curriculum applications outside of a themed sequence.	Class Book (25 points) Podcast (50 points) Google Literature Trip (25 points) Demonstration Video (50 points)	15%
DIGITAL CULTURE, CONTEXT AND IMPACT	Reviews of research and related literature in technology education.	Journal Article Review (50 points)	5%
DIGITAL CITIZENSHIP	Research and discussion projects in ethical issues in technology education Topics include: assistive technology, copyright (RIAA & MPAA) and creative commons, net safety, privacy and security, AUP/CIPA and appropriate use, digital divides (economics, gender, race), job loss, Internet addiction, cyber bullying, social networking, gaming, real versus virtual libraries, virtual classrooms and online coursework, artificial intelligence, corporate controls, technology and health, technology and environment, technology and global community. Elements of course projects must adhere to copyright law and use with permission. Research and discussion may take place on an online learning environment, a class blog, a class wiki, etc.	Digital passport (50 points)	5%
PARTICIPATION	Performance includes display of professional dispositions, thoughtfulness, communication, and attention to course projects, assignments, and inquiries, prompt submissions, perfect attendance. Focus is on evident desire for excellence in teaching and learning with technology in classrooms.	100 points	10%
EVALUATIONS	Instructor will select appropriate midterm and final exam formats. Chapter Quizzes are in d2L. Due dates have been set. You may take each quiz up to 5 times. Your highest score on the five attempts will be used. Final Exam will be on Tuesday, May 2 nd from 12:30 p.m. – 2:30 p.m.	100 points Chapter quizzes (5 points each) Final Exam (40 points)	10%

Optional Assignments	Students will complete optional assignments as determined by the	300 points	30%
	instructor.	Exploring	
		Websites	
		(25 points)	
		Coding	
		(50 points)	
		Geogebra	
		(10 points)	
		StoryStarters	
		(10 points)	
		SMARTBoard	
		(50 points)	
		ISTE	
		Standards	
		Project	
		(100 points)	
		iPad	
		integration (25	
		points)	
		Pokemon	
		Go/Gaming	
		(25 points)	

Optional assignments:

Discussion boards, podcasting, digital storytelling, emerging technologies, Student Response Systems, digital photography, Paint, resumes, newsletters, iPads, and cover letters

Instructor's Policies for the Course as Appropriate (attendance, late assignments, etc.): Attendance is required for participation, but attendance does not mean participation. Active participation is expected.

Due dates will be on your course calendar posted in d2L. Late assignments will not be accepted.

Students are expected to respect his/her teacher and peers. You should not be talking while another person is talking. You are expected to take notes during each class.

All assignments submitted in the dropbox are submitted into Turn-it In. This system checks for plagiarism. Any assignment that is plagiarized will result in an "F" for the assignment and your name being submitted to Student Standards. It can also result in an "F" in the course, depending on the severity of the offense.

Cell phones, laptops, and other personal electronic devices must be put away during class time. It is inappropriate to use social media during class. It is also inappropriate to work on other homework during class. A disposition referral form will be completed for any student exhibiting negative dispositions.

You will get out of this course what you put into it.

Grading Scale: A = 93%-100%, B = 84%-92%, C = 75%-83%, D = 66%-74%, F = Below 66%

Web site for assistance with APA questions: http://owl.english.purdue.edu/owl/resource/560/01/

Week	COURSE OUTLINE/ WEEKLY TOPICS
1	 Course outline and purpose Syllabus/assignments ISTE Technology Standards (students and teachers)
	 ISTE Technology Standards (students and teachers) Hardware review D2L Workshop
	• DZE WORKSHOP
2	 Productivity Microsoft Office: Word, Excel, PowerPoint, Publisher and activities Open source and online productivity tools
	Read and discuss Chapter 1
3	 Review and evaluate school/teacher websites Elements of effective web design in education
	Web design software (e.g. SeaMonkey)Read and discuss Chapter 2
4	What is a cloud? How do servers work?
4	Internet/WWW organization/IP addressesCreate web page framework
	Read and discuss Chapter 3
5	Web design elementsWork on websites
	Read and discuss Chapter 4
6	Video editing
0	 Record video and edit according to course guidelines Read and discuss Chapter 5
7	 Curriculum integration Research on technology integration
	• WebQuests
	Read and discuss Chapter 6
8	 SmartBoard operation Lesson development using SmartBoard software
	Student response systems
	 Alternative interactive formats (1:1 classrooms) Read and discuss Chapter 7
9	Integrating Google Tools for Education Distance Journing
9	 Distance learning Read and discuss Chapter 8
10	 Concept mapping Read and discuss Chapter 9
11	Discipline-specific technology software and hardwareContent related applications
	Web-based ResourcesRead and discuss Chapter 10
	Assessment with technology
12	Flipped classrooms

	Read and discuss Chapter 11
13	 Digital Citizenship Legal issues/Digital Millennium Copyright Act (DMCA) Read and discuss Chapter 12
14	 Social media issues – uses and issues Communication with stakeholders (e.g., family and community engagement)
15	 Class presentations Summary and lessons learned
16	Final Exam

Academic Integrity

"The Department of EC/ELE/MLE is committed to the learning process and academic integrity as defined within the Student Conduct Code Standard I. "Eastern students observe the highest principles of academic integrity and support a campus environment conducive to scholarship." Students are expected to develop original and authentic work for assignments submitted in this course. "Conduct in subversion of academic standards, such as cheating on examinations, plagiarism, collusion, misrepresentation or falsification of data" or "submitting work previously presented in another course unless specifically permitted by the instructor" are considered violations of this standard."

Student Success Center

Students who are having difficulty achieving their academic goals are encouraged to first contact their instructor. If needing additional help, please contact the Student Success Center (www.eiu.edu/~success) for assistance with time management, test taking, note taking, avoiding procrastination, setting goals, and other skills to support academic achievement. The Student Success Center provides individualized consultations. To make an appointment, call 217-581-6696, or go to 9th Street Hall, Room 1302.

Students with Disabilities

If you are a student with a documented disability in need of accommodations to fully participate in this class, please contact the Office of Student Disability Services (OSDS). All accommodations must be approved through OSDS. Please stop by Ninth Street Hall, Room 2006, or call 217-581-6583 to make an appointment.

EDU 2022 References *Denotes Unit Conceptual Framework References

Bissell, J., Manring, A., & Rowland, V. (2001). *Cybereducator: The internet and world wide web for K-12 and teacher education* (2nd ed.). New York: McGraw-Hill.

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- Brooks-Young, S. (2007). *Digital-age literacy for teachers: Applying technology standards to everyday practice*.

 Eugene, OR: International Society for Technology in Education.
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 Hall
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 Corwin Press
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Standley, M. & Ormiston, M. (2003). *Digital storytelling with PowerPoint*. Eugene, OR: Visions Technology in Education.

Tapscott, D. (1999). Growing up digital: The rise of the net generation, New York, : McGraw-Hill.

Tiene, D., & Ingram, A. (2001). Exploring current issues in educational technology. New York, NY: McGraw-Hill.

Worchester, T. (2003). 50 quick & easy computer activities. Eugene, OR: Visions Technology in Education.

Willard, N.E. (2002). *Computer ethics, etiquette, and safety for the 21st century student.* Eugene, OR: International Society for Technology in Education.

Helpful Websites:

The Horizon Report (current edition) http://www.nmc.org/pdf/2013-horizon-report-HE.pdf

EDUCAUSE http://www.educause.edu

ISTE http://www.iste.org

Thinkfinity http://www.thinkfinity.com

Kathy Schrock's Guide for Educators: http://www.kathyshrock.com

WebQuests http://webquest.org
Edutopia http://www.edutopia.org

Zunal.com

SMART Exchange: http://www.smarttech.com/Home+Page/Resources/SMART+Exchange

Google Earth: http://www.google.com/earth/index.html

Learning in Hand: http://learninginhand.com/

Common Sense Media: http://www.commonsensemedia.org/educators

ITC: http://www.eiu.edu/itc/
