

Technology and Pedagogy

New Mexico State University

Fall 2024, Mini Semester 1: August 21, 2024 – October 13, 2024

Instructor: Melissa Warr

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Office Hours: By appointment. See scheduling link in Canvas.

Course: EDUC 5130 U71, M71

Credit Hours: 3

Delivery method: Online and asynchronous

Required Texts

Ottenbreit-Leftwich, A. & Kimmons, R. *The K-12 educational technology handbook*. Free online at <http://edtechbooks.org>

You may be assigned additional readings and will be notified of changes or additions via *Canvas* announcements and email.

Course Overview

The purpose of this course is to examine the potential and limitations of technology for teaching and promoting learning. This course is meant to give you a broad overview of the role of technologies in teaching and learning. The field of Educational Technology encompasses theories of human learning, principles of instructional design, media selection and evaluation, media applications, and media development. You will complete the class with the ability to use technologies to support your professional development and teaching as well as to facilitate students' use of technology as they gain experience in the field in which they are learning.

In this project-based course, you will engage in socially relevant experiences and practice problem-solving within a learning community. You will critically analyze and evaluate the use of technologies in teaching and learning for diverse communities. Through course readings, discussion topics, and activities, you will gain an understanding of pedagogical stances that influence the use of technologies within education while examining technologies' uses as learning tools. Additionally, you will have the opportunity to engage with people who have diverse perspectives and worldviews while critically reflecting on your own understanding

of technology and pedagogy in education. You will also develop basic web and media development skills through the creation of an online educational technology portfolio.

Course Learning Objectives

Upon completing this course, you will be able to:

1. Develop a personal learning plan that supports continual exploration and experimentation with new pedagogical tools and approaches
2. Communicate effectively through media and web design
3. Use digital resources in a safe, legal, and ethical manner, including protection of intellectual rights and student privacy
4. Employ technology to design authentic, learner-driven activities that support diverse learners
5. Understand and apply foundational concepts of computational thinking
6. Support the development of creativity and nurture creative expression through digital technology
7. Utilize digital technologies to develop authentic learning assessments and analyze student progress
8. Promote practices that support digital equity and inclusion

In this class, you will participate in project-based learning to meet standards of the International Society for Technology in Education (ISTE). We will focus on the [standards for educators](#) but also considering standards for [students](#) and [education leaders](#).

Engagement Hours

The course is designed to provide learning opportunities and activities totaling a minimum of 127.5 hours. This estimate is for the typical student. The designed activities may take you more or less time to complete depending on your experience and familiarity with the course topics. Following is a breakdown of time estimates for activities in this course:

- Assigned reading and resources: articles and videos at the beginning of each module (about 3 hours each week) totaling approximately 24 hours
- Video lectures: 1-3 each week (about 2 hours each week), totaling approx. 16 hours
- Online discussions and activities: 1-2 per week (5 hours each week), totaling approx. 40 hours
- Educational technology portfolio drafts and final project (6 hours each week), approx. 48 hours

Course Expectations

Because this is an 8-week course, I expect that you will contribute to the course about every other day. Keeping up with this fast track is critical to your success. Also, all students will exhibit the behavior of a mature college student and complete assignments by assigned due dates. Missing weekly assignments will adversely affect your grade. You are expected to log-in regularly during each week to complete all

assignments including participation in the course discussions. *You will not be able to make up missed discussions or group activities.*

This course is not self-paced! Therefore, begin working on course readings and activities toward the beginning date of each module and work consistently until the end of each module when I will evaluate your effort.

Course Organization

This course consists of 8 modules, one for each week of class. The modules will be made available by the first day of each week (generally a Monday) and can be found in the "Module" section in Canvas. Work through the modules step by step, and be sure to *watch all videos*.

An additional overview module includes course information, an introduction video, and a Canvas tour video.

Course Schedule

Week	Topic	External Resources	Project Work
1: 8/21-25	Introduction	Handbook 1.1 ¹ ; online resources (see Canvas)	
2: 8/26-9/1	Learning in a Networked Society	ISTE Standards ² , Handbook 1.3, digital literacies (see Canvas)	Draft of personal statement on teaching, learning, and technology Draft of personal learning plan
3: 9/2-8	Learning Outcomes, Assessment, and the Internet	Online resources (see Canvas)	Home page with name, picture, and teaching/learning/technology statement
4: 9/9-15	Learning Design with Digital Technologies	Online resources (see Canvas)	Learning activity 1 (group)
5: 9/16-22	Media Design and Copyright	Handbook 2.9, 3.1, 3.3; Trust Web Design	Learning activity 2, personal learning plan infographic
6: 9/23-29	Critical Perspectives on Technology, Media, and Literacy	Handbook 3.2, 2.1	Digital equity blog post
7: 9/30-10/6	Coding, Creativity, and Computational Thinking	Handbook 2.2, 2.3, 2.10	Learning activity 3, learning activity media
8: 10/7-12	Critique and Refinement	Online resources (see Canvas)	Revise all products and finalize website

Final Signature Assignment due Friday, October 12, 2024

NOTE: The deadline for withdrawing from a course to receive a refund is **August 30, 2024**. Students may withdraw from a course and receive a "W" (no refund) by **September 20, 2024**. The last day to withdraw from the university is **October 7, 2024**. All important dates can be found at <https://records.nmsu.edu/important-dates-students/>.

Assignments and Grading

See Canvas for full assignment descriptions and due dates.

Category	Description	Due Date	Weight of Grade
YellowDig	Online discussion	Weekly earning periods are Fridays	15%
Activities	Videos and discussions on weekly content	Last day of week (usually Sunday nights)	55%
Major Assignment	Online Digital Technology Portfolio		30%

Note: Grades in the course are assigned using Fractional Grading

Grading Scale

Grade	Percentage
A	94% +
A-	90% – 93%
B+	87% – 89%
B	84% – 86%
B-	80% – 83%
C+	77% – 79%
C	74% – 76%
C-	70% – 73%
D+	67% – 69%
D	64% – 66%
D-	60% – 63%
F	0% – 59%

Policies

Use of Artificial Intelligence

Use of AI tools is permitted in this course for students who wish to use them. If AI is used for an assignment, students must provide a brief explanation of how it was used. Using an AI tool to generate content without disclosure qualifies as academic dishonesty.

Online Preparation

As this is an accelerated graduate-level course, you will be expected to commit significant time each week. According to the Carnegie Credit Hour system, you can expect to spend up to 16 hours on this course each week. You should spread the work across the week, as you will need to participate several times each week to fully participate in discussions. You are expected to access the course no later than the 2nd day of each week.

Required Technical Skills

Taking an online course requires a number of technical skills as well as other soft skills. However, at a minimum you will need to meet certain technology responsibilities to complete work for this course. If you have questions about technical requirements for the course, please contact me immediately.

To begin in this course, you must:

1. Read this syllabus carefully and contact me immediately if you have any questions. You are responsible for the content and assignments in this syllabus.
2. Be able to obtain access to an internet connection, preferably broadband, and a working computer for the duration of this course.
3. Be Proficient with Microsoft© Office applications.
4. Be able to conduct research searches on the Internet; see the [libguide for this course](#), the [NMSU Library](#) and [Research Help for Students](#)
5. Find resources on the Internet; see [Internet Tutorials](#).
6. Be able to send and receive emails and email attachments in and out of class.
7. Know how to change your Canvas Notification settings.
8. Know how to read email in Canvas.
9. Maintain backups of all work you create for this course.

Netiquette

Netiquette is a set of rules for behaving politely online. Something about cyberspace makes it easy for people to forget that they are interacting with other real people. The following bullet points cover some basics to communicating online:

1. Be sensitive to the fact that classmates will come from different cultural and linguistic backgrounds, as well as hold different political and religious beliefs. Plus they will have other differences.
2. Use good taste when composing your responses in Discussion Forums. Swearing and using profanity is often insensitive to your classmates so should be avoided. Also, consider that slang can be misunderstood or misinterpreted.
3. Don't use all capital letters when composing your responses as this is considered "shouting" on the Internet and is regarded as impolite or aggressive. It can also be stressful on the eye when trying to read your message.
4. Be respectful of others' views and opinions. Avoid "flaming" (publicly attacking or insulting) them as this can cause hurt feelings and decrease the chances of learning from different points of view.
5. Be careful when using acronyms. If you use an acronym it is best to spell out its meaning first, then put the acronym in parentheses afterward, for example: Frequently Asked Questions (FAQs). After that you can use the acronym freely throughout your message.
6. Use good grammar and spelling, and avoid using text-messaging shortcuts.

Technology Requirements

Supported Software

All programs are available through NMSU or have free licenses available:

- [Canvas LMS](#)
- [Zoom](#)
- [Canvas Studio](#)
- Flipgrid (access through Canvas)
- Perusall (access through Canvas)
- [Scratch](#)
- [Canva](#)
- [Adobe Express](#)
- Microsoft Office Suite
- Other free media creation tools such as Google Sites, Wix, etc. You will choose which of these tools to use.

Computer and Operating System

- 4GB of RAM or higher
- Dual Core 2GHz or higher (Intel Core i5 processor or equivalent)
- Microphone (built-in, wired, USB, wireless or Bluetooth)
- Web camera (built-in or USB)

Operating System:

- Windows 10 or higher
- OS X 10.13 or higher

A list of Academic Technology favorite microphones and USB webcams can be found at <https://learning.nmsu.edu/minimum-technology-requirements/>

Internet

- Broadband connection (25 Mbps download, 3Mbps upload as defined by the [FCC](#))
- Wired connection (ethernet) preferred
- Stable wireless connection is acceptable
- Use the [NMSU Checs Speedtest](#) to test your internet speed

Web Browsers

- Latest two versions of [Chrome](#)
- Latest two versions of [Firefox](#)
- Javascript must be enabled

Use only the latest version of Google Chrome or Mozilla Firefox for Canvas. Safari, Internet Explorer and Microsoft Edge have known issues that can interfere with performing basic tasks within Canvas. The links to ensure you have the latest version are listed below:

- [How to update Google Chrome](#)
- [How to update Mozilla Firefox](#)

Accessibility of eLearning Tools

Some general or common VPAT links. Add or revise as needed.

- [Adobe Products: Section 508 VPATs for \(Adobe Connect 9, Adobe Acrobat, and more\)](#)
- [Apple Products: Section 508 VPATs for](#) (Safari Web Browser, Mac OS X, and more)
- [Microsoft Products: Section 508 VPATs for](#) (Internet Explorer, Office, Skype, and more)
- [Google Products: Section 508 VPATs for](#) (Google Earth, Chrome Web Browser, Google Docs, and more)
- [Firefox Web Browser: Section 508 VPAT \(version 3.5 and up\)](#)

Technical Support

The ICT Customer Service Center is equipped to deal with all of your information technology (IT) and telecommunications needs at NMSU. The ICT Customer Service Center hours of operation are from 8:00 am until 5:00 pm Monday through Friday Mountain Time. Please feel free to contact them at 646-1840 or via e-mail at helpdesk@nmsu.edu.

You can also go to the [Student Technology Help](#) web page and [Student Resources](#) located at the [Canvas](#) web page for additional information on Canvas.

Syllabus Modifications Statement

This syllabus is subject to revision to best fit the educational needs of the class. Any changes or modifications will be announced in class and/or on Canvas.

Student Services and University Policies

Please visit <https://provost.nmsu.edu/faculty-and-staff-resources/syllabus/policies.html> for university policies and student services, including Discrimination and Disability Accommodation, academic misconduct, student services, final exam schedule, grading policies and more.

Discrimination and Disability Accommodation

Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act Amendments Act (ADA) covers issues relating to disability and accommodations. If a student has questions or needs an accommodation in the classroom (all medical information is treated confidentially), contact:

Main Campus

Disability Access Services
Corbett Center Student Union Room 204
Aaron Salas, Director
575-646-6840

das@nmsu.edu New Mexico State University, in compliance with applicable laws and in furtherance of its commitment to fostering an environment that welcomes and embraces diversity, does not discriminate on the basis of age, ancestry, color, disability, gender identity, genetic information, national origin, race, religion, retaliation, serious medical condition, sex (including pregnancy), sexual orientation, spousal affiliation, or protected veteran status in its programs and activities, including employment, admissions, and educational programs and activities. Inquiries may be directed to the Laura Castille, Executive Director, Title IX and ADA/Section 504 Coordinator, Office of Institutional Equity, P.O. Box 30001, E. 1130 University Avenue, Las Cruces, NM 88003; 575.646.3635; 575-646-7802 (TTY); equity@nmsu.edu. New Mexico State University, in compliance with applicable laws and in furtherance of its commitment to fostering an environment that welcomes and embraces diversity, does not discriminate on the basis of age, ancestry, color, disability, gender identity, genetic information, national origin, race, religion, retaliation, serious medical condition, sex (including pregnancy), sexual orientation, spousal affiliation, or protected veteran status in its programs and activities, including employment, admissions, and educational programs and activities. Inquiries may be directed to the Laura Castille, Executive Director, Title IX and ADA/Section 504 Coordinator, Office of Institutional Equity, P.O. Box 30001, E. 1130 University Avenue, Las Cruces, NM 88003; 575.646.3635; 575-646-7802 (TTY); equity@nmsu.edu. **Title IX prohibits sex harassment, sexual assault, dating and domestic violence, stalking and retaliation. For more information on discrimination or Title IX, or to file a complaint contact:**

Laura Castille, Executive Director and Title IX Coordinator
Office of Institutional Equity (OIE) - O'Loughlin House, 1130 University Avenue
Phone: (575) 646-3635
E-mail: equity@nmsu.edu
Website: equity.nmsu.edu

Other NMSU Resources:

NMSU Police Department:	(575) 646-3311	www.nmsupolice.com
NMSU Aggie Health & Wellness (Medical and counseling services):	(575) 646-1512	https://wellness.nmsu.edu/
NMSU Dean of Students:	(575) 646-1722	
For Any On-campus Emergencies:	911	