

Technology and Pedagogy

New Mexico State University

Fall 2022, Mini Semester 2: October 11, 2022 — December 9, 2022

Instructor: Melissa Warr

Office Location: 200C O'Donnell Hall

Email: warr@nmsu.edu

Phone: 575-646-3540 (preferred contact: email)

Office Hours: By appointment. Please use this link to schedule an online appointment with me:

<https://calendly.com/melissawarr/15min>. I will respond to emails and calls within 48 hours on business days.

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: 10/11-16	Teaching, Learning, and Technology	Handbook 1.1 ¹ ; online resources (see Canvas)	Draft of personal statement on teaching, learning, and technology
2: 10/17-23	Learning in a Networked Society	ISTE Standards ² , Handbook 1.3, digital literacies (see Canvas)	Draft of personal learning plan
3: 10/24-30	Learning Outcomes, Assessment, and the Internet	Online resources (see Canvas)	Home page with name, picture, and teaching/learning/technology statement
4: 10/31-11/6	Learning Design with Digital Technologies	Online resources (see Canvas)	Learning activity 1 (group)
5: 11/7-13	Media Design and Copyright	Handbook 2.9, 3.1, 3.3; Trust Web Design ³	Learning activity 2, personal learning plan infographic
6: 11/14-20	Digital Equity and Inclusion	Handbook 3.2, 2.1	Digital equity blog post
7: 11/21-12/4	Coding, Creativity, and Computational Thinking	Handbook 2.2, 2.3, 2.10	Learning activity 3, learning activity media
8: 12/5-9	Critique and Refinement	Online resources (see Canvas)	Revise all products and finalize website
Final Signature Assignment due Friday, December 9, 2022			

NOTE: The deadline for withdrawing from a course to receive a refund is **October 20, 2022**. Students may withdraw from a course and receive a "W" (no refund) by **November 9, 2022**. The last day to withdraw from the university is **December 2, 2022**. 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
Activities	Videos and discussions on weekly content	Last day of week (usually Sunday nights)	40%
Project Work and Collaborations	Application of weekly content to the online portfolio. This includes providing feedback to peers	Last day of week (usually Sunday nights)	30%
Major Assignment	Online Digital Technology Portfolio		30%

Note: Grades in the course are assigned using Fractional Grading

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	

Syllabus Addendum

Fall 2022

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.

Important Dates for Fall 2022

Students may add courses through **August 18, 2022** without instructor permission and through **August 26, 2022** with instructor permission. Late registration fees will apply for courses added after **August 18, 2022**. Students may withdraw from classes and receive a refund until **September 2, 2022**. The deadline for withdrawing from a course with no refund (W) is **October 14, 2022**. Students may withdraw from the university (withdraw from all classes) through **December 2, 2022**.

Important Dates & NMSU Academic Calendar (including mini-semester dates):
<https://records.nmsu.edu/important-dates-students/>

University Grading System

The University Grading System is outlined in [ARP 4.55](#). Instructors can decide if their course is graded using fractional grading (pluses and minuses). At the request of the student, the instructor will provide information on progress in the course prior to the last day to drop a course.

Religious Observances and Authorized Absences

NMSU values diversity and the university supports cultural and religious inclusiveness. If your participation in cultural or religious observances (e.g. religious holidays, spiritual observances) conflicts with a particular class session, please notify the instructor in writing and ahead of time to be excused from class for such observances.

S/U Grading Option

Students enrolling under the S/U grading option must earn a specific grade as designated by the instructor to receive an "S". Students must elect the grading option prior to the last day to add a class. See [ARP 4.55 Part 2](#) for more information.

Incomplete Grades

Under university policy, incompletes may be given only if a student has a passing grade at mid-semester (the last day to withdraw from a class) and is precluded from successful completion of the second half of the course by a documented illness, documented death, family crisis or other

similar circumstances beyond the student's control. Visit [ARP 4.55 Part 2, Letter D](#) for more information.

Six-Week Early Performance Grades

Lower division courses are required to submit grades for work completed as of the sixth (6th) Friday of the semester. These grades will be used to facilitate opportunities for students to address performance issues. This is optional for upper division courses. ([ARP 4.55, Part 5](#))

Class Recording

Class lectures can be recorded and are covered by [ARP 11.05, Part 2, Letter I](#). These recordings should not be distributed by anyone other than the instructor.

Academic Misconduct

The Student Code of Conduct defines academic misconduct, non-academic misconduct and the consequences or penalties for each. The Student Code of Conduct is available in the NMSU Student Handbook online

<http://studenthandbook.nmsu.edu/>

Academic misconduct is explained here:

https://studentlife.nmsu.edu/academic_integrity/academic_misconduct.html

Academic misconduct is governed by ARP Policy 5.10. (<https://arp.nmsu.edu/5-10/>)

COVID-19 Expectations and the Crimson Commitment

You are expected to comply with all university requirements and expectations regarding mask-wearing, vaccination, and reporting of a positive test, or you should not enroll in in-person course sections.

Please do not come to class if you are feeling sick; communicate with your instructor about making up any missed classes.

Masks welcome and encouraged for all students

All students, regardless of vaccination status, are welcome to wear a mask while indoors on any NMSU system campus. Any changes or updates to this guidance will be posted online at now.nmsu.edu.

Vaccination requirements

Unless you are enrolled in exclusively online courses and will not be on campus for any reason, you must provide proof of COVID-19 vaccination or request an exemption through [Med+Proctor](#). More information about how to submit your proof of vaccination or proof of testing is available at https://studenthandbook.nmsu.edu/immunizations/immunization_policies1.html.

The Crimson Commitment

All students should follow the Crimson Commitment. Your commitment states:

I commit to myself and other Aggies. I will:

- ✓ **Get vaccinated** for COVID-19 if I am enrolled in any in-person or hybrid courses, or if I will be on campus for any reason
- ✓ **Monitor myself** for symptoms of COVID-19
- ✓ **Report to the Aggie Health & Wellness Center** or another medical professional if I have symptoms of COVID-19 or other communicable illness
- ✓ **Wash my hands** often with soap and water and/or use hand sanitizer
- ✓ **Wear a mask** if I choose to, or as directed by the latest university guidance
- ✓ **Stay home if I feel ill** or have been around someone ill
- ✓ **Report a positive case** online at now.nmsu.edu and participate in contact tracing if called
- ✓ **Keep up to date with the latest guidance** from experts at NMSU, the NM Department of Health, and the CDC.

I will abide by these practices throughout the year:

- ✓ I will not use mask-wearing to discriminate against my classmates, instructors, or NMSU staff members in any way.
- ✓ I will follow instructions regarding seating in campus classrooms.
- ✓ If I am unable to attend an in-person class session due to symptoms of COVID-19 or another illness, I will communicate with my instructor ahead of time.

If I am unwilling to comply with COVID-safe practices:

- ✓ I will talk to my academic advisor about enrolling in online course sections, if available, or disenrolling from fall coursework. (Disenrolling will impact financial aid, housing, etc.)

Stay informed about COVID-19 at NMSU

You can find more information about the NMSU system's COVID-19 response at now.nmsu.edu. In addition, updates are available to students and families through many communication channels.

Links to visit or subscribe are available at now.nmsu.edu/plan/communication-and-information-sharing.html.

Updated 08.08.22