

Continuing Education

1717 S. Chestnut Ave. Fresno, CA 93702-4709 (800) 372-5505 https://ce.fresno.edu

TEC-993: Technology-Infused Standards

Independent Study Online Course Syllabus

Instructors: Linda Jacobsen & Dr. Glenn Williams

Phone: (559) 907-2494

Email: linda.jacobsen@fresno.edu

Number of Graduate Semester Units: 3
Target Grade Level: K - 14th Grade
Teachers and Professional Developers
Course Access: https://connect.fresno.edu

Course Description

Learn how to create standards-based technology-infused lessons and incorporate them into the curriculum. This course begins with studying state and locally adopted technology standards, including International Standards Technology Education (ISTE) Standards for Students, technology use plans, and subject matter standards.

Tutorials, activities, and assignments aim to teach teachers how to create dynamic lessons where student teams tackle real-world problems aided by technology to conduct research and present their findings. Students will learn search techniques to find lesson ideas for creating and adapting lessons beyond basic computer skills to teaching life-long learning skills. Access to students is optional. As with our courses, we take great pride in supporting our students. We pride ourselves on providing timely, individualized support.

What You Will Learn

- The steps for taking technology standards and infusing them into instructional standards.
- A holistic approach to technology instruction as outlined in ISTE Standards for Students.
- Explore the use of artificial intelligence and ways it can enhance the development and presentation of a technology-rich curriculum.
- Understand the need for a team approach in providing technology instruction.
- Add value in creating a technology-infused scope sequence that builds towards graduates with the skills to be successful.
- Different ways to be an educational leader and provide coaching support.

Note: There is no required book for this course.

Required Texts and Course Materials

Course Materials: Online course materials will be used in this course. Additional course materials include uploaded documents and Internet resources.

Online Resources: Relevant online resources that support the course content and encourage further investigation will be available throughout the course assignments. Active hyperlinks are utilized throughout the course and will link to the appropriate information when clicked. These include videos, podcasts, worksheets, online activities, journal articles and other resources.

Canvas: This course will be delivered totally online. Canvas is a web-based learning management system (LMS) that provides students access to online resources, documents, videos, assignments, quizzes, forums, etc. Canvas is easy to learn and has a user-friendly interface.

Course Dates

Self-paced; students may enroll at any time and take up to one year, from the date of registration, to complete assignments. Students may complete assignments in no less than three weeks for a 3-unit course (one week per unit).

National Standards Addressed in This Course

International Society for Technology in Education (ISTE) and National Educational Technology Standards (NETS)

National Board for Professional Teaching Standards (NBPTS) (http://www.nbpts.org/standards-five-core-propositions/)

First published in 1989 and updated in 2016, <u>What Teachers Should Know and Be Able to Do</u> articulates the National Board's Five Core Propositions for teaching. The Five Core Propositions - comparable to medicine's Hippocratic Oath — set forth the profession's vision for accomplished teaching. Together, the propositions form the basis of all National Board Standards and the foundation for National Board Certification. Course assignments have been designed so students can demonstrate excellence against these professional teaching standards whenever possible.

- Proposition 1: Teachers are committed to students and their learning
- Proposition 2: Teachers know the subject they teach and how to teach those subjects to students
- Proposition 3: Teachers are responsible for managing and monitoring student learning
- Proposition 4: Teachers think systematically about their practice and learn from experience
- Proposition 5: Teachers are members of learning communities

National Educational Technology Standards (NETS- for Teachers)

The projects contained in this course are closely aligned to the ISTE National Educational Technology Standards (NETS- for Teachers). Numbers in parentheses following each learning outcome above refer to the National Educational Technology Standards category to which the outcome is linked. The categories are:

- I. Facilitate and Inspire Student Learning and Creativity
- II. Design and Develop Digital-Age Learning Experiences and Assessments
- III. Model Digital-Age Work and Learning
- IV. Promote and Model Digital Citizenship and Responsibility

V. Engage in Professional Growth and Leadership

Continuing Education Program Student Learning Outcomes

CE 1	Demonstrate proficient written communication by articulating a clear focus, synthesizing arguments, and utilizing standard formats in order to inform and persuade others, and present information applicable to targeted use.
CE 2	Demonstrate comprehension of content-specific knowledge and the ability to apply it in theoretical, personal, professional, or societal contexts.
CE 3	Reflect on their personal and professional growth and provide evidence of how such reflection is utilized to manage personal and professional improvement.
CE 4	Apply critical thinking competencies by generating probing questions, recognizing underlying assumptions, interpreting and evaluating relevant information, and applying their understandings to the professional setting.
CE 5	Reflect on values that inspire high standards of professional and ethical behavior as they pursue excellence in applying new learning to their chosen field.
CE 6	Identify information needed in order to fully understand a topic or task, organize that information, identify the best sources of information for a given enquiry, locate and critically evaluate sources, and accurately and effectively share that information.

Student Learning Outcomes (SLOs) for This Course

	tudent Learning Outcomes for This Course y the end of this course student will be able to:	National Standards Addressed in This Course*	Continuing Education Program Student Learning Outcomes Addressed**
1.	examine the precepts of what the CCSS is and how it fits into the bigger picture of college and career readiness along with developing a personal vision demonstrated by turning in responses to writing prompts.	NBPTS 1, 2, 3, 4	CE 6
2.	produce materials with graphics and text to communicate the vision of the CCSS and prepare for a leadership role within their grade level group to plan curriculum	NBPTS 1, 3, 4, 5	CE 1, 2, 4, 6
3.	construct an online flyer that includes text, graphics, and, links targeting educators to attend a workshop on the Four C's	NBPTS 2, 5	CE 1, 2, 4, 6
4.	create a multimedia project that communicates their vision of an ideal graduating high school student who is career and college prepared based on the CCSS, the Four C's, and the P21 Framework for 21st Century Learning	NBPTS 1, 2	CE 2, 4, 6
5.	analyze the assessment their state has adopted (PARCC or SBAC) and how to prepare students to take the assessment. Students will demonstrate their learning through written responses to writing prompts.	NBPTS 1, 2, 3, 4	CE 2, 4, 6

6.	produce a written assignment including a properly attributed graphic demonstrating their knowledge of Creative Commons and copyright law and how it affects republishing online copyrighted material.	NBPTS 1, 5	CE 5
7.	design a lesson that includes online resources that supports a technology-infused standard.	NBPTS 1, 2, 3	CE 2, 6
8.	build and assess a CCSS core subject technology infused unit of study.	NBPTS 1, 2	CE 2, 4, 6

Topics, Assignments, and Activities

Module Title	Module Assignments and Activities	Points Possible
Welcome Module	Welcome Video	
	Course Syllabus	
Module 1 –	Introduce Yourself Forum	
Getting Started	 Introduction forum Review the U.S. Department of Education Overview and Mission Statement Review The Need for Technology-Infused Standards- Based Instruction. 	
Module 2 – Technology Frameworks, Plans, and ISTE Standards for Students	 Research and review state instructional technology plan documentation Research and review local-level technology plans Learn about ISTE Study the ISTE Standards for Students 2.1 Assignment: State Technology Online Information 2.2 Assignment: Local-Level Technology Plans 2.3 Assignment: ISTE Standards for Students 	10 10 10
Module 3 – Scope and Sequence	 Research and review scope and instructional sequence plans Research and review technology scope and sequence plans 3.1 Assignment: Infusing Technology into the Scope and Sequence 	10
Module 4 – Artificial Intelligence in Education	 Study online materials Study the role of AI in education Read about AI personal learning assistants Read how teachers can use AI 4.1 Assignment: A Future with AI 4.2 Assignment: Monitoring AI 	10 10
Module 5 –	 Learn basic steps for creating lessons Research lesson plans for short lessons Learn how tech activities can introduce new topics 	

^{*} Please refer to the section on National Standards Addressed in This Course
** Please refer to the section on Continuing Education Program Student Learning Outcomes

Module Title	Module Assignments and Activities	Points Possible
Technology- Supported Short Lessons	5.1 Assignment: Technology-Infused Short Lessons	10
Module 6 – Technology-Infused Unit of Study	Technology-Infused • Review the list of skills and consideration that go into an	
One of olday	 6.1 Assignment: Skill-Building Lessons Learn about using rubrics for assessment. 	20
	6.2 Assignment: Inquiry-Based Unit of Study	20
Module 7 – The Ideal Graduate	. to both on all both and grandation model to bo	
	Assignment 7.1: A Day in the Life of	20
Module 8 –	Learn about support roles for a technology	
Caring is Sharing	8.1 Assignment: Expanding Your Role	10
	8.2 Forum Assignment: Sharing is Caring	10
Course Wrap-up –	Final Reflection Forum	
Grading and	Course Evaluation	
Evaluation	Course Completion Checklist	
	Grade Request / Transcript Request	
	TOTAL POINTS	150 Points

Grading Policies, Rubrics, and Requirements for Assignments

Grading Policies

- Assignments will be graded per criteria presented in the course rubrics.
- A = 90-100% and B = 80-89%, (anything below 80% will not receive credit.)
- The discernment between an A or a B letter grade is at the discretion of the instructor based on the quality of work submitted (see course rubrics).
- Coursework falling below a B grade will be returned with further instructions.
- All assignments must be completed to receive a grade and are expected to reflect the quality that teacher-training institutions require of professional educators. If completed assignments do not meet this standard, students will be notified with further instructions from the instructor.

Grading Rubrics

Grade	Percent	Description	Rubric
A	90-100%	Excellent	Meets all course / assignment requirements with significant evidence of subject mastery and demonstration of excellent graduate level professional development scholarship.
В	80-89%	Very Good	Adequately meets criteria for all course/assignment requirements - demonstrates subject competency with very good graduate level professional development scholarship.

NC	Below 80%	Unacceptable	Does not meet the minimum criteria for all
			course/assignment requirements and demonstrated little, if any, evidence of acceptable graduate level
			professional development scholarship.

Writing Requirements

- **Superior:** Writing is clear, succinct, and reflects graduate level expectations. Clearly addresses all parts of the writing task. Maintains a consistent point of view and organizational structure. Include relevant facts, details, and explanations.
- **Standard:** Writing is acceptable with very few mistakes in grammar and spelling. Addresses most parts of the writing task. Maintains a mostly consistent point of view and organizational structure. Include mostly relevant facts, details, and explanations.
- **Sub-standard:** Writing contains noticeable mistakes in grammar and spelling. Does not address all parts of the writing task. Lacks a consistent point of view and organization structure. May include marginally relevant facts, details, and explanations.

Lesson Plan Requirements

- **Superior:** Instructional goals and objectives clearly stated. Instructional strategies appropriate for learning outcome(s). Method for assessing student learning and evaluating instruction is clearly delineated and authentic. All materials necessary for student and teacher to complete lesson clearly listed.
- **Standard:** Instructional goals and objectives are stated but are not easy to understand. Some instructional strategies are appropriate for learning outcome(s). Method for assessing student learning and evaluating instruction is present. Most materials necessary for student and teacher to complete lesson are listed.
- **Sub-standard:** Instructional goals and objectives are not stated. Learners cannot tell what is expected of them. Instructional strategies are missing or strategies used are inappropriate. Method for assessing student learning and evaluating instruction is missing. Materials necessary for student and teacher to complete lesson are missing.

Discussion Forum Requirements

- **Superior:** Response was at least 1 page (3 fully developed paragraphs) in length. Thoroughly answered all the posed questions, followed all the assignment directions, proper grammar and no spelling errors. Language is clear, concise, and easy to understand. Uses terminology appropriately and is logically organized.
- **Standard:** Response was ½ to 1 page in length (2-3 fully developed paragraphs). Answered all the questions but did not provide an in-depth analysis, followed most of the assignment directions, proper grammar and no spelling errors. Language is comprehensible, but there a few passages that are difficult to understand. The organization is generally good.
- **Sub-standard:** Response was less than ½ page in length (1 paragraph). Did not answer all the required questions and/or statements or responses were superficial, vague, or unclear, did not follow the assignment directions, many grammar and spelling errors. Is adequately written, but may use some terms incorrectly; may need to be read two or more times to be understood.

Instructor/Student Contact Information

Throughout the course participants will be communicating with the instructor and their classmates on a regular basis using asynchronous discussion forums. A virtual office is utilized for class questions and students are provided with instructor contact information in the event they want to make email or phone contact. In addition, students are encouraged to email or phone the instructor at any time. Students will also receive feedback on the required assignments as they are submitted.

Discussion Forums

Participation is an important expectation of this course and all online courses. Online discussions promote reflection and analysis while allowing students to appreciate and evaluate positions that others express. While students may not be engaging with the same students throughout this course they will be expected to offer comments, questions, and replies to the discussion question whenever possible. The faculty role in the discussion forum is that of an observer and facilitator.

Coursework Hours

Based on the Carnegie Unit standard, a unit of graduate credit measures academic credit based on the number of hours the student is engaged in learning. This includes all time spent on the course: reading the textbook, watching videos, listening to audio lessons, researching topics, writing papers, creating projects, developing lesson plans, posting to discussion boards, etc. Coursework offered for FPU Continuing Education graduate credit adheres to 45 hours per semester unit for the 900-level courses. Therefore, a student will spend approximately 135 hours on a typical 3-unit course.

Services for Students with Disabilities

Students with disabilities are eligible for reasonable accommodations in their academic work in all classes. In order to receive assistance, the student with a disability must provide the Academic Support Center with documentation, which describes the specific disability. The documentation must be from a qualified professional in the area of the disability (i.e. psychologist, physician or educational diagnostician). Once documentation is on file, arrangements for reasonable accommodations can be made. For more information and for downloadable forms, please go to https://www.fresno.edu/departments/disability-access-education.

Plagiarism and Academic Honesty

All people participating in the educational process at Fresno Pacific University are expected to pursue honesty and integrity in all aspects of their academic work. Academic dishonesty, including plagiarism, will be handled per the procedures set forth in the Fresno Pacific University Catalogue - https://www.fresno.edu/students/registrars-office/academic-catalogs

Technology Requirements

To successfully complete the course requirements, course participants will need Internet access, can send and receive email, know how to manage simple files in a word processing program, and have a basic understanding of the Internet. Please remember that the instructor is not able to offer technical support. If you need technical support, please contact your Internet Service Provider.

Getting Help with Canvas: If you need help with Canvas, please contact the FPU Help Desk by phone: (559) 453-3410 or email: helpdesk@fresno.edu. Help is available Mon-Fri 8:00 am to 7:00 pm.

Final Course Grade and Transcripts

When all work for the course has been completed, students will need to logon to the Continuing Education website (https://ce.fresno.edu/my-account) and "Request Final Grade". Once the instructor receives the requests and submits the grade online, students may log back in to view their Final Grade Report or order transcripts online. Please allow at least two weeks for the final grade to be posted. For more information, see the Continuing Education Policies and Procedures at https://ce.fresno.edu/ce-policies-and-procedures.

University Policies and Procedures

Students are responsible for becoming familiar with the information presented in the Academic Catalog and for knowing and observing all policies and procedures related to their participation in the university community. A summary of university policies may be found on the university website at https://www.fresno.edu/departments/registrars-office/academic-catalogs.

Fresno Pacific University Student Learning Outcomes

Student Learning Outcomes Oral Communication: Students will *exhibit* clear, engaging, and confident oral communication – in both individual and group settings – and will critically *evaluate* content and delivery components.

Written Communication: Students will *demonstrate* proficient written communication by *articulating* a clear focus, *synthesizing* arguments, and utilizing standard formats in order to *inform* and *persuade* others.

Content Knowledge: Students will *demonstrate* comprehension of content-specific knowledge and the ability to apply it in theoretical, personal, professional, or societal contexts.

Reflection: Students will *reflect* on their personal and professional growth and *provide evidence* of how such reflection is utilized to manage personal and vocational improvement.

Critical Thinking: Students will *apply* critical thinking competencies by *generating* probing questions, *recognizing* underlying assumptions, *interpreting* and *evaluating* relevant information, and *applying* their understandings to new situations.

Moral Reasoning: Students will *identify* and *apply* moral reasoning and ethical decision-making skills, and *articulate* the norms and principles underlying a Christian world-view.

Service: Students will *demonstrate* service and reconciliation as a way of leadership.

Cultural and Global Perspective: Students will *identify* personal, cultural, and global perspectives and will employ these perspectives to *evaluate* complex systems.

Quantitative Reasoning: Students will accurately *compute* calculations and symbolic operations and *explain* their use in a field of study.

Information Literacy: Students will *identify* information needed in order to fully understand a topic or task, *explain* how that information is organized, *identify* the best sources of information for a given enquiry, *locate* and critically *evaluate* sources, and accurately and effectively *share* that information.