

UC Merced, School of Natural Sciences
NSED 130, 3 units
Technology in Education
Course Syllabus, Spring 2019
Wednesdays 5:30pm - 7:20pm GRAN 120
Ms. Stacey Cool, scool@ucmerced.edu
Office AOA 178; Tuesdays 4:15pm - 5:00pm
Also available in person and online via appointment

Course Overview:

NSED 130, Technology in Education, is a course for students interested in careers in education, particularly for those planning to teach in elementary, middle or high schools in California. This course will help students gain experience using digital learning tools and explore thoughtful and innovative ways to integrate technology into the classroom. Students will explore current educational technology advances as well as strategies for the effective integration of technology in the K-12 classroom focusing on how technology can be used to support student mastery of the Common Core State Standards and Next Generation Science Standards. Throughout this course, students will experience and design technology integrated lessons in science and mathematics classrooms, create and maintain weekly reflections and design a classroom website. Students will also learn how to model and promote digital citizenship and responsibility.

Required Text:

There is no required textbook, but there will be assigned readings throughout the semester.

Other Materials:

1. A gmail account (example xxxxx@gmail.com)
2. [A website hosted by Google](#)
3. Optional: A Twitter account <https://twitter.com>

Learning Objectives:

At the conclusion of NSED 130, students will demonstrate their ability to:

- Use digital technologies to develop multimedia products to customize learning activities and assessments to address students' diverse learning styles and abilities
- Collaborate with peers, students, and parents using digital tools and resources
- Advocate and model digital citizenship through safe, legal and ethical use of digital information and technology
- Communicate relevant information to students, parents and the community using a digital platform
- Use technology to promote, support and advance creative and innovative thinking and inventiveness in the classroom
- Understand the basics of computer hardware and software and implement basic troubleshooting techniques to resolve common technology based issues in the classroom.

Relationship to Program Learning Outcomes:

The skills and knowledge students will acquire in this course will contribute to the following program learning outcomes of the CalTeach/NSED program:

1. PLO 1(a,b): Learn how to become an effective teacher in the digital age.

2. PLO 2(d): Develop an ability to appropriately select and incorporate technology to enhance students' learning in science and math classrooms.

Grading:

Attendance ~5 pts per week	50 pts
Professional Learning points	30 pts
Weekly reflections, 5 pts each	75 pts (approximately)
Website portfolio	75 pts
Class activities, 5 pts each	75 pts (approximately)
Final class activity, lesson design	100 pts

The use of grades is meant to record your accomplishments, as well as to guide focused feedback and progress. Letter grades are not used to rank or sort students; instead, they are meant to aid in your understanding of completing assigned tasks as outlined. Expectations are set high in this course, and we will do our best to ensure that you are supported in meeting these expectations. Given the focus of this course, we hope that the outlined evaluation process will contribute to and inform our developing sense of teaching and learning.

Important notes about grading:

Assignments need to be submitted to Cat Courses by the specified deadlines. Late assignments will only be accepted for full credit if prior arrangements have been made in a timely manner with the instructor. All other late assignments are not guaranteed to receive credit. Tardiness and absences will be recorded on Cat Courses. Unexcused absences will affect your grade (i.e., your attendance grade for the day of absence will be 0%).

Attendance and Participation:

Classes will consist largely of discussions and presentations by the instructor, and groups of students. Active participation in discussion is an essential part of learning and, hence, of evaluating your work. Participation means listening as well as talking, monitoring your own contributions to a discussion, helping others develop their ideas, and, of course, expressing your own thoughts in whole and small-group discussions. Participation also includes making every effort to arrive to class promptly (arriving late is disruptive for the whole class and you will lose participation points). Because the course emphasizes the creation of community in the classroom, participation and attendance are critical. All absences should be communicated to the instructors prior to occurring. Electronic devices should be used for course-related purposes only.

Academic Integrity:

Each student in this course is expected to abide by the University of California, Merced's Academic Honesty Policy. You are encouraged to study together and to discuss information and concepts covered in lecture and the sections with other students. You can give "consulting" help to or receive "consulting" help from such students. However, this permissible cooperation should never involve one student having possession of a copy of all or part of the work done by someone else, in the form of an e-mail, an e-mail attachment file, a diskette, or a hard copy. Should copying occur, both the student who copied work from another student and the student who gave material to be copied will both automatically receive a zero for the

assignment. Penalty for violation of this Policy can also be extended to include failure of the course and University disciplinary action.

The information listed above is for individual assignments. There are group assignments in this class which require full cooperation and participation of all group members. If a group member has not completed and/or contributed his/her portion of group work by the due date of the assignment, that group member will neither receive credit for the assignment nor have any opportunity to make up the work at a later date.

Please note:

Students will be notified about readings and softcopy of reading materials will be provided.

This schedule is subject to change due to extenuating circumstances and to reflect the overall needs of the class. Students will be informed accordingly.

Tentative Course Topics

Week	Date	Topic
1	Aug 28, 2019	Course introduction
2	Sept 4, 2019	Why technology in the classroom?
3	Sept 11, 2019	Fair use and copyright
4	Sept 18, 2019	SAMR & TPACK
5	Sept 25, 2019	Infographics
6	Oct 2, 2019	Screencasting
7	Oct 9, 2019	Digital Citizenship, Twitter, Social Media and PLNs
8	Oct 16, 2019	Google Tools Group Presentations
9	Oct 23, 2019	Guest Speaker - Assistive Technologies
10	Oct 30, 2019	Simulations
11	Nov 6, 2019	Hyperdocs
12	Nov 13, 2019	No Class - you can meet to work on presentations
13	Nov 20, 2019	Multimedia
	Nov 27, 2019	School Holiday
14	Dec 4, 2019	Website Peer Review
15	Dec 11, 2019	Final Presentations
16		Final Exam Week (no class)