



SCHOOL OF EDUCATION

Engaging diverse communities through leading and learning for social justice.

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Course Number	EDUC 422
Course Title	Technology Tools for Teaching and Learning
CRN Number	20525
Days	Thursday
Time	7:30 – 10:15 AM
Course Location	University Hall 273
Semester / Year	Spring 2016
Instructor	Rong-Ji Chen, Ph.D.
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Office	UH 418
Hours	By Appointment or before and after class

SCHOOL OF EDUCATION MISSION & VISION STATEMENT

(Adopted by SOE Governance Community, January 2013)

Vision

To serve the educational needs of local, regional, and global communities, the School of Education advances innovative practice and leadership by generating, embracing, and promoting equitable and creative solutions.

Mission

The mission of the School of Education community is to collaboratively transform education. We:

- Create community through partnerships
- Promote and foster social justice and educational equity
- Advance innovative, student-centered practices
- Inspire reflective teaching and learning
- Conduct purposeful research
- Serve the School, College, University, and Community

BASIC TENETS OF OUR CONCEPTUAL FRAMEWORK

- Student centered education
- Research and theory specific to the program field inform practice
- Connections and links between coursework and application
- Strong engagement between faculty and candidates
- Co-teaching clinical practice
- Culturally responsive pedagogy and socially just outcomes

COURSE DESCRIPTION

This course focuses on knowledge and skills necessary to apply education oriented productivity tools, graphic organizers, database and spreadsheets, presentation tools, school-appropriate multimedia tools, and communication tools. *The course meets the technology prerequisite skill requirement for entering the credential program.*

Chen: This course is designed for teacher candidates who have met the campus-wide Computer Competency Requirement (CCR) or have pre-requisite skills equal to the CCR and anticipate entrance into the teacher preparation program. This three-unit course partially fulfills the technology competencies as identified by the California Commission on Teacher Credentialing (CCTC) and the School of Education's Teacher Performance Expectations (TPEs) in technology, and is being considered for satisfying the Computer Integration Requirement (CIR) for the Liberal Studies Program.

The EDUC 422 course prepares teacher candidates to apply specific educational technology-based applications in methods courses for implementation in teaching and learning with students as well as to their own professional growth. When entering the teacher education program, teacher candidates are expected to have competency in the applications covered in this course. Therefore, School of Education faculty will make assignments requiring teacher candidates to apply technology concepts and skills.

Course Prerequisites: Necessary Technical Competency Required of Students

Students need to have basic computing knowledge and skills such as word processing, file and folder organization and storage, and e-mail and the Internet, It is recommended that students complete a fundamental computer literacy course with a grade B or higher in the last 12 months.

This course has a few online sessions. To successfully complete online activities, you need to use Cougar Courses (download course materials, watch presentations and videos, upload your assignments, post discussion responses and reply to peers' posts, join online chats, etc.). You need to use e-mail effectively and know how to attach files. It is best that you know how to make minor configuration changes in a Web browser (change font sizes, open and close tabs, allow or disable pop-ups and plug-ins, enable Cookies and JavaScript, etc.). In addition, you are expected to use office applications (such as a word processor, a presentation tool, a spreadsheet tool, an image viewer, a PDF reader, etc.), engage in collaboration, and apply Web literacy skills (conduct an effective search with a search engine, evaluate trustworthiness of web content, understand copyrights). Lastly, you may need to troubleshoot basic hardware and software problems.

Contact Information for Technical Support Assistance

If you need any technical support, contact IITS Student Help Desk: <http://www.csusm.edu/sth/>.

Course Objectives

Teacher candidates will demonstrate competency in:

- Meeting the International Society for Technology in Education Standards for Teachers (ISTE Standards•T) outlined below at a basic level of proficiency;
- Using a variety of educational technology tools that are applied in teaching and learning within the credential program and used in public school settings; and
- Setting up an electronic portfolio and demonstrating proficiencies in all five areas of ISTE Standards•T.

Credit Hour Policy Statement

Per the University Credit Hour Policy, students are expected to spend a minimum of 6 hours outside of the classroom each week because this is a 3-unit course in a 15-week timeframe. The course has a few online sessions. The online tasks are designed to reflect an appropriate amount of time needed for the course credit.

REQUIRED TEXTS, MATERIALS AND ACCOUNTS

Required Texts

There is no required text for this course. Instead, you will need the following:

- Cloud-based storage or a mass storage device, e.g., USB flash drive (8 GB or larger).
- Use of a digital video camera for the video project. Check-out is available from the Kellogg library on 2nd floor. Alternatively, a mobile device with a good video camera may be used.

It is not necessary to purchase the educational software, as many of the specific software titles are available on the Web, free in demo-version, and/or available on campus.

Recommended Text (optional)

- Boss, S. & Krauss, J. (2014). *Reinventing project-based learning: Your field guide to real-world projects in the digital age* (2nd ed.). Washington, DC: International Society for Technology in Education.
- Solomon, G., & Schrum, L. (2014). *Web 2.0 how-to for educators* (2nd ed.). Washington, DC: International Society for Technology in Education.

Cougar Courses

Access from <https://cc.csusm.edu/>, where course materials and assignments are posted.

COURSE AND PROGRAM LEARNING OUTCOMES

Teacher Performance Expectation (TPE) Competencies

This course is designed to help candidates seeking a California teaching credential to develop the skills, knowledge, and attitudes necessary to assist schools and districts in implementing effective programs for all students. The successful candidate will be able to merge theory and practice in order to realize a comprehensive and extensive educational program for all students. You will be required to formally address:

- TPE 14: CSUSM Educational Technology (based on ISTE Standards•T: see below)

The following TPEs are also addressed in this course:

- TPE 4 - Making Content Accessible (ISTE Standards•T I and II)
- TPE 5 - Student Engagement (ISTE Standards•T I and II)
- TPE 6 - Developmentally Appropriate Teaching Practices (ISTE Standards•T I and II)
- TPE 7 - Teaching English Language Learners (ISTE Standards•T II and IV)
- TPE 12 - Professional, Legal, and Ethical Obligations (ISTE Standards•T IV)
- TPE 13 - Professional Growth (ISTE Standards•T V)

The course also addresses Special Education Standards by California Commission on Teacher Credentialing:

- Multiple and Single Subject Program Standard 13: Preparation to Teach Special Populations (Students with Special Needs) in the General Education Classroom
- Preliminary Education Specialist Program Design Standard 6: Using Educational and Assistive Technology

ISTE Standards for Teachers (ISTE Standards•T)

Effective teachers model and apply the ISTE Standards for Students (Standards•S) as they design, implement, and assess learning experiences to engage students and improve learning; enrich professional practice; and provide positive models for students, colleagues, and the community. All teachers should meet the following standards and performance indicators. Teachers:

I. Facilitate and Inspire Student Learning and Creativity

Teachers use their knowledge of subject matter, teaching and learning, and technology to facilitate experiences that advance student learning, creativity, and innovation in both face-to-face and virtual environments. Teachers:

- a. promote, support, and model creative and innovative thinking and inventiveness
- b. engage students in exploring real-world issues and solving authentic problems using digital tools and resources
- c. promote student reflection using collaborative tools to reveal and clarify students' conceptual understanding and thinking, planning, and creative processes
- d. model collaborative knowledge construction by engaging in learning with students, colleagues, and others in face-to-face and virtual environments

II. Design and Develop Digital-Age Learning Experiences and Assessments

Teachers design, develop, and evaluate authentic learning experiences and assessments incorporating contemporary tools and resources to maximize content learning in context and to develop the knowledge, skills, and attitudes identified in the Standards•S. Teachers:

- a. design or adapt relevant learning experiences that incorporate digital tools and resources to promote student learning and creativity
- b. develop technology-enriched learning environments that enable all students to pursue their individual curiosities and become active participants in setting their own educational goals, managing their own learning, and assessing their own progress
- c. customize and personalize learning activities to address students' diverse learning styles, working strategies, and abilities using digital tools and resources
- d. provide students with multiple and varied formative and summative assessments aligned with content and technology standards and use resulting data to inform learning and teaching

III. Model Digital-Age Work and Learning

Teachers exhibit knowledge, skills, and work processes representative of an innovative professional in a global and digital society. Teachers:

- a. demonstrate fluency in technology systems and the transfer of current knowledge to new technologies and situations
- b. collaborate with students, peers, parents, and community members using digital tools and resources to support student success and innovation
- c. communicate relevant information and ideas effectively to students, parents, and peers using a variety of digital-age media and formats
- d. model and facilitate effective use of current and emerging digital tools to locate, analyze, evaluate, and use information resources to support research and learning

IV. Promote and Model Digital Citizenship and Responsibility

Teachers understand local and global societal issues and responsibilities in an evolving digital culture and exhibit legal and ethical behavior in their professional practices. Teachers:

- a. advocate, model, and teach safe, legal, and ethical use of digital information and technology, including respect for copyright, intellectual property, and the appropriate documentation of sources
- b. address the diverse needs of all learners by using learner-centered strategies and providing equitable access to appropriate digital tools and resources
- c. promote and model digital etiquette and responsible social interactions related to the use of technology and information
- d. develop and model cultural understanding and global awareness by engaging with colleagues and students of other cultures using digital-age communication and collaboration tools

V. Engage in Professional Growth and Leadership

Teachers continuously improve their professional practice, model lifelong learning, and exhibit leadership in their school and professional community by promoting and demonstrating the effective use of digital tools and resources. Teachers:

- a. participate in local and global learning communities to explore creative applications of technology to improve student learning

- b. exhibit leadership by demonstrating a vision of technology infusion, participating in shared decision making and community building, and developing the leadership and technology skills of others
- c. evaluate and reflect on current research and professional practice on a regular basis to make effective use of existing and emerging digital tools and resources in support of student learning
- d. contribute to the effectiveness, vitality, and self-renewal of the teaching profession and of their school and community

ISTE (*International Society for Technology in Education*), 2008 (http://www.iste.org/docs/pdfs/20-14_ISTE_Standards-T_PDF.pdf).

Professional Dispositions

The California State University San Marcos School of Education fosters the development of the following professional dispositions among our students:

- *Social Justice and Equity*: Candidates appreciate the languages, communities, and experiences learners bring to the classroom. Candidates advocate for and support marginalized communities and individuals.
- *Collaboration*: Candidates learn and practice the skills of collaboration in their coursework and use them in their professional interactions with students, colleagues, parents, caregivers, and those in the wider community.
- *Critical Thinking*: Candidates analyze various professional contexts, resulting in more informed decision-making about professional practice.
- *Professional Ethics*: Candidates learn to make and act on well-reasoned, principled judgments.
- *Reflective Teaching and Learning*: Candidates critically review their professional practice and the impact it has on student success.
- *Life-Long Learning*: Candidates are committed to actively seeking new knowledge, skills, and experiences throughout their career.

(adopted by the COE Governance Community on January 19, 2007)

GENERAL CONSIDERATIONS

School of Education Attendance Policy

Due to the dynamic and interactive nature of courses in the School of Education, all candidates are expected to attend all classes and participate actively. At a minimum, candidates must attend more than 80% of class time, or s/he may not receive a passing grade for the course at the discretion of the instructor. Individual instructors may adopt more stringent attendance requirements. Should the candidate have extenuating circumstances, s/he should contact the instructor as soon as possible. (*Adopted by the COE Governance Community, December, 1997*).

This course: You are expected to actively participate in in-class and online discussions, group work, presentations, and hands-on activities throughout the course. A positive professional disposition includes a willingness to consider and discuss new ideas objectively, curiosity, perseverance, and seriousness about improving one's self as a teacher. It can also include a sense of humor and social intelligence (e.g., the tact and ability to make others feel comfortable and to contribute)

According to the above policy and conditions, students missing more than one class session (including online module) cannot earn an A or A-. Students missing more than two class sessions cannot earn a B or B+. Students missing more than three classes cannot earn a C+. Arriving late or leaving early by more than 20 minutes counts as an absence. Notifying the instructor does not constitute an excuse. All assignments must be turned in on due date even in case of an absence. If extraordinary circumstances occur, please communicate with the instructor.

In addition to attending course sessions, students may need to use campus resources for some assignments. All students must plan times they can work in labs on campus. Students are required to check campus resources and availability of labs. Mac computers are available in ACD 202, ACD 211, UH 271, UH 272, UH 273, and SCI2 306 in addition to other locations such as the library 2nd floor. Students are required to use campus issued-email accounts and check email and the class Cougar Course (Moodle) site at least two times per week to communicate with instructor and peers.

CSUSM Academic Honesty Policy

Students will be expected to adhere to standards of academic honesty and integrity, as outlined in the Student Academic Honesty Policy. All assignments must be original work, clear and error-free. All ideas/material that are borrowed from other sources must have appropriate references to the original sources. Any quoted material should give credit to the source and be punctuated accordingly.

Academic Honesty and Integrity: Students are responsible for honest completion and representation of their work. Your course catalog details the ethical standards and penalties for infractions. There will be zero tolerance for infractions. If you believe there has been an infraction by someone in the class, please bring it to the instructor's attention. The instructor reserves the right to discipline any student for academic dishonesty, in accordance with the general rules and regulations of the university. Disciplinary action may include the lowering of grades and/or the assignment of a failing grade for an exam, assignment, or the class as a whole.

Incidents of Academic Dishonesty will be reported to the Dean of Students. Sanctions at the University level may include suspension or expulsion from the University.

Refer to the full Academic Honesty Policy at:

http://www.csusm.edu/policies/active/documents/Academic_Honesty_Policy.html

Plagiarism

As an educator, it is expected that each candidate will do his/her own work, and contribute equally to group projects and processes. Plagiarism or cheating is unacceptable under any circumstances. If you are in doubt about whether your work is paraphrased or plagiarized see the Plagiarism Prevention for Students website <http://library.csusm.edu/plagiarism/index.html>. If there are questions about academic honesty, please consult the University catalog.

Students with Disabilities Requiring Reasonable Accommodations

Students with disabilities who require reasonable accommodations must be approved for services by providing appropriate and recent documentation to the Office of Disabled Student Services (DSS). This office is located in Craven Hall 4300, and can be contacted by phone at (760) 750-4905, or TTY (760) 750-4909, and by email sent to dss@csusm.edu. Students authorized by DSS to receive reasonable accommodations should meet with their instructor during office hours or, in order to ensure confidentiality, in a more private setting.

All University Writing Requirement

The CSUSM writing requirement of 2500 words is met through the completion of course assignments. Therefore, all writing will be looked at for content, organization, grammar, spelling, and format. For this class please use APA Manual, 6th edition (see a guide at <http://owl.english.purdue.edu/owl/section/2/10/>).

Use of Technology

Candidates are expected to demonstrate competency in the use of various forms of technology (i.e. word processing, electronic mail, Moodle, use of the Internet, and/or multimedia presentations). Specific requirements for course assignments with regard to technology are at the discretion of the instructor. Keep a digital copy of all assignments for use in your teaching portfolio. All assignments will be submitted online, and some will be submitted in hard copy as well. Details will be given in class.

Electronic Communication Protocol

Electronic correspondence is a part of your professional interactions. If you need to contact the instructor, e-mail is often the easiest way to do so. It is my intention to respond to all received e-mails in a timely manner. Please be reminded that e-mail and on-line discussions are a very specific form of communication, with their own nuances and etiquette. For instance, electronic messages sent in all upper case (or lower case) letters, major typos, or slang, often communicate more than the sender originally intended. With that said, please be mindful of all e-mail and on-line discussion messages you send to your colleagues, to faculty members in the School of Education, or to persons within the greater educational community. All electronic messages should be crafted with professionalism and care.

Things to consider:

- Would I say in person what this electronic message specifically says?
- How could this message be misconstrued?
- Does this message represent my highest self?
- Am I sending this electronic message to avoid a face-to-face conversation?

In addition, if there is ever a concern with an electronic message sent to you, please talk with the author in person in order to correct any confusion.

COURSE REQUIREMENTS

Part I. Attendance & Professional Dispositions (30 points)

See the attendance policy and professional dispositions (page 5).

Part II. Assignments

Assignment	Description	Pts	Due
Community forum	Post a self-introduction on the class community forum. Respond to peers' postings. The purpose is community building.	5	post 1/31 replies 2/4
Reading reflections & comments	Reflect on course readings related to ISTE Standards and current issues in educational technology; maintain a professional blog, contribute to online discussions, and apply Netiquette.	32	varied dates
ISTE Standards	Students unpack ISTE Standards for teachers and students by analyzing classroom scenarios.	10	2/21
Mobile learning	Students apply concepts of mobile learning and apps to facilitate children's learning.	10	varied dates
Google Drive collaboration	Students use tools on Google Drive and collaborate on projects. Each group will also share their learning with the whole class by means of oral presentation and posting artifacts and resources.	10	form 3/6 report 3/13
Digital citizenship & cyber safety	Students explore issues concerning identity safety, cyber bullying, cyber predators, piracy, copyright, and fair use. They will become knowledgeable about digital citizenship featured in ISTE Standards•T.	15	3/20 & 3/31
TPE 14 portfolio	The culminating project of the course: students select artifacts to show evidence for TPE 14, which is based on ISTE Standards•T.	20	draft 3/17 final 5/13
Visual learning	Students create an effective visual presentation (a mind map, graphic organizer, animation, e-poster, etc.) on an educational topic.	10	4/3
Computational thinking	Students explore computational thinking and use Scratch to create an inspiring educational project.	10	4/14
Learning network	Students use Web 2.0 tools to build a personal learning network and engage in collaborative learning and professional growth.	10	4/24
Video project	Students will learn how to use digital video cameras, edit video clips, and produce a video for classroom use.	20	5/5

Assignments subtotal 152 points + Attendance & professional dispositions 30 points = 182 points.

Detailed information is provided on Cougar Courses. Please note that modifications may occur at the discretion of the instructor. In addition to the assignments described above, performance assessment will be on student's cooperation and flexibility in response to unforeseen challenges and student's ability to perform tasks using a variety of technology tools.

Assignment Policy

All assignments, requirements, due dates and scoring rubrics will be available through Cougar Courses. *You are responsible to successfully submit all assignments, review instructor's feedback, and track your grades and progress in the course.* In order to successfully complete this course, all assignments must be completed at an acceptable level noted on assignment directions and rubrics. All assignments are due by 11 p.m. on the due date, unless specified otherwise.

Late assignment policy:

10% deduction for being one day late, 20% deduction two days late, 30% deduction three days late, and so on. After a week, no assignments will be accepted. If extraordinary circumstances occur, please contact the instructor BEFORE the deadline.

Course Grades

Final grades are calculated on the standard of:

A: 93% - 100%	A-: 90% - 92%	B+: 87% - 89%	B: 83% - 86%
B-: 80% - 82%	C+: 77% - 79%	C: 73% - 76%	C-: 70% - 72%
D: 60% - 69%	F: below 60		

Failure to complete this course with a grade of C+ or higher will prohibit a teacher candidate from entering a teaching credential program.

Final Exam Statement

No final exam.

TENTATIVE COURSE SCHEDULE

The dynamic nature of teaching and learning makes it hard to establish a set schedule. Please note that modifications will likely to occur at the discretion of the instructor.

Session	Topics
S1 (1/28)	<ul style="list-style-type: none"> • Course intro, community building, CC orientation • Overview: teaching and learning with technology • Blog assignment & reading groups
S2 (2/4) Online	<ul style="list-style-type: none"> • <i>Online module 1: Setting up a blog & reading reflections</i>
S3 (2/11)	<ul style="list-style-type: none"> • 7:30-8 iPad and iOS orientation (optional activity) • Mobile learning (iPad & apps) • App presentations 1-5 • Visual learning: Screen casting • Overview: ISTE Standards and TPE 14
S4 (2/18) Online	<ul style="list-style-type: none"> • <i>Online module 2: Unpacking ISTE Standards</i>
S5 (2/25)	<ul style="list-style-type: none"> • App presentations 6~10 • Intro to personal learning network (PLN) • Social network tools for learning
S6 (3/3) Online	<ul style="list-style-type: none"> • <i>Online module 3: Collaboration and Google Tools & Drive</i>
S7 (3/10)	<ul style="list-style-type: none"> • App presentations 11-15 • Flipping classrooms • Portfolio assessment & TPE 14 portfolio • Design for effective visual learning
S8 (3/17) Online	<ul style="list-style-type: none"> • <i>Online module 4: Digital citizenship & cyber safety</i>
S9 (3/31) Online	<ul style="list-style-type: none"> • <i>Online module 5: Visual learning</i>
S10 (4/7)	<ul style="list-style-type: none"> • App presentations 16~20 • Computational thinking & Scratch
S11 (4/14) Online	<ul style="list-style-type: none"> • <i>Online module 6: Personal learning network</i>
S12 (4/21)	<ul style="list-style-type: none"> • Educational use of video • Video project: Planning & preparation for filming • Video editing using Apple iMovie
S13 (4/28)	<ul style="list-style-type: none"> • Video project: Filming • Video project: Editing (bring ear buds or a headset)
S14 (5/5) Optional	<ul style="list-style-type: none"> • Video project: Editing (<i>optional session</i>) • If you've completed the video project, use the class time to work on other projects.
S15 (5/12) Online	<ul style="list-style-type: none"> • <i>Online module 7: TPE14 portfolio</i>

NOTE ABOUT A POSSIBLE WORK STOPPAGE

The California Faculty Association is in the midst of a difficult contract dispute with the CSU systemwide administration. In response to the CSU's stance, it is possible that the faculty union will call a strike or other work stoppage this term. I promise to inform the class as soon as possible of any disruption to our class meeting schedule. For further information about the issues involved in the strike, please see the resources at <http://www.calfac.org>, including http://www.calfac.org/sites/main/files/file-attachments/faculty_index_final_2.pdf.