



Lone Star Colleges

Alternative Teacher Certification Program

Technology Activities

As specified by the Texas Education Code 21.0452(b) (5), TEA is required to publicly post information about two facets of EPP curriculum related to teacher technology use.

1. The activities offered by your EPP that are designed to prepare teachers to integrate technology effectively into curricula and instruction, including activities consistent with the principles of universal design for learning.
2. The activities offered by your EPP that are designed to prepare teachers to use technology effectively to collect, manage, and analyze data to improve teaching and learning for the purpose of increasing student academic achievement

Field Experience

(The ATCP Candidates are **strongly encouraged** during their Interview and Orientation to find teachers that use technology well because there are plenty of teachers who do not use technology well in the classroom.)

Observation 5: {4 hours of observation}

Your fifth set of documented observation hours will allow you to become aware of technology usage in classrooms. Observe technology used in elementary, middle and high school classrooms if possible.

Look for the following during your observations:

- ❖ What types of technology (hardware / software) is available to the teacher and students?
- ❖ How is technology used by teachers and/or students? (Computers, overhead projectors, smart boards...)
- ❖ What types of electronic media are used in the classroom for lessons and student activities?
- ❖ Did you observe special education students using technology?
If yes, describe.
- ❖ How could the teacher have used technology in the lesson you observed (if little or no technology was used)?

Write a reflection about the observed items listed above. **Your reflection needs to be typed and one half (½) page in length.**

Pedagogy and Professional Responsibility Class

Objective of Lesson: ATCP candidates will watch the following videos, choose 5 ways they can use the technology ideas in the classroom they will be teaching and present these ideas using technology to their class.

- 50+ Ways to Use Technology in the Classroom
<https://www.youtube.com/watch?v=Yj7QQM-ZMWc>
- 9 Useful Apps for Educators
<https://www.youtube.com/watch?v=7Se2bY44UhY>

Clinical Teaching & Internship class Module

Instructional Technology Module

- Focus and Objectives
- Technology Survey
- 21st Century Classroom Tools Discussion
- Teaching and Learning with Technology
- Preparing for the TExES and Technology Questions
- Sharing Technology Discussion
- Technology is No Longer a Separate Subject

Using the table below, evaluate your current technology prowess.

1= Not Skilled 2= Slightly Skilled 3= Moderately Skilled 4= Highly Skilled

Technology Skill Question	1	2	3	4
Can I ... Create, name, save, copy, and locate files on the computer?				
Can I ... Model respect of intellectual property by not illegally copying software or another individual's electronic work?				
Can I ... Select appropriate strategies to navigate and access information for research and resource sharing?				
Can I ... Determine the usefulness and appropriateness of digital information?				
Can I ... Use appropriate software, including the use of word processing and multimedia, to express ideas and solve problems?				
Can I ... Evaluate the product for relevance to the assignment or task?				
Can I ... Use technology terminology appropriate to the task?				
Can I ... Use a variety of input devices such as mouse, keyboard, disk drive, modem, voice/sound recorder, scanner, digital video, CD-ROM, or touch screen?				
Can I ... Apply appropriate electronic search strategies in the acquisition of information including keyword and Boolean search strategies?				
Can I ... Apply critical analysis to resolve online information conflicts and validate information?				
Can I ... Use appropriate software to express ideas and solve problems including the use of word processing, graphics, databases, spreadsheets, simulation, and multimedia?				
Can I ... Participate with electronic communities as a learner, initiator, contributor, or mentor?				
Can I ... Create appropriate applications including, but not limited to, spreadsheets and databases to develop charts, tables, and graphs by using data from various sources?				
Can I ... Use presentation software, such as PowerPoint and Prezi, to communicate with specific audiences?				
Can I ... Create and use technology assessment tools, such as checklists, timelines, or rubrics, to monitor the progress of a project?				

Total _____ out of 60 possible points

It is our hope that if your score is low, you will use these identified areas and the rest of the module to identify starting points for profession growth technology classes; and if your score is high, the remainder of this module will bring into focus some new areas of interest to try in your classroom.

How did you do on the "Before" Survey? - The first 6 items were K-2 Technology TEKS and the last 9 were from the 3 – 5 Technology TEKS. Are you surprised?

21st Century Classroom Technology Tools Discussion

View parts 1 and 2 of The 21st Century Classroom on YouTube:

<https://www.youtube.com/watch?v=kQINyTrKhAg>

<https://www.youtube.com/watch?v=tg4EbeKcLd0>

Answer the following questions, and add any other reflective thoughts you have.

QUESTIONS:

What technologies were mentioned that you didn't know anything about?

What technologies were you familiar with but never used?

What piqued your interest making you want to know more?

If you are familiar with all of them and have used all of them, identify the advantages and disadvantages of their use in the classroom.

Remember that this is a discussion format and requires responses to two peers and two additional resources, cited and briefly described.

Objectives:

At the end of this module, teacher/interns will be able to

1. Locate and explain the technology TEKS required for current teaching position.
2. Create and complete a technology product that can be used with students.
3. Locate web tools useful for teaching and student projects.
4. Engage students in their own learning using technology.

Check out the questions surrounding the use of technology in the classroom:

<https://www.youtube.com/watch?v=Y-RbLbeDP4g>

<https://thejournal.com/Articles/2013/06/04/6-Technology-Challenges-Facing-Education.aspx?>

be sure to advance to page 2 as well.

View the following TEA Website page for two things:

- 1) Technology Standards for Students. Find your grade level to view the TEA expectations.
- 2) Technology Standards for Teachers and Librarians... View the TEA expectations.

<http://www.tea.state.tx.us/index2.aspx?id=6230>

Teaching and Learning with Technology

CHOOSE an Activity:

Choose one of the activities below. It will be the focus of your discussion post in the next forum: *Sharing Technology Discussion*. (They all offer good possibilities for classroom application. Check them out, but you only have to respond to one.)

1. Access the following website <http://www.edutopia.org/technology-integration-guide-implementation> . Peruse the article and then re-focus on the Integrating Technology Across the Access Spectrum section. Based on your classroom computer configuration, **choose** one of the listed suggestions with which you are currently unfamiliar. Follow through and **try it out**. **Explain** the tech approach and **evaluate** its effectiveness.
2. Investigate the topic of social networking. Read this article on the topic: <https://thejournal.com/Articles/2009/09/16/Social-Networking-in-Schools-Incentives-for-Participation.aspx?Page=1>. Next, find a more current article on the topic. Have the attitudes toward the use of social networking changed? Evaluate the overall topic, and explain the position that you personally take on the issue.
3. **Create** a culminating project for one of your units requiring students to produce something with technology – give them choices to tap into their preferred learning styles. **Try** one of these choices and **share** with us. **Explain** its effectiveness.
4. **Replace** a *PowerPoint* that you currently use with Prezi, a more versatile presentation program, available for download at <https://prezi.com/>. **Share** the original PP and the new Prezi with us and **explain** which you find more effective. (There is a free public Prezi tab, and if you really like Prezi, there are various levels of access for educators... from free to varying paid levels.)
5. Access www.teachingchannel.org

Click on the Q&A Ask Anything. **Choose** your subject area from the left hand vertical menu. Peruse the questions to **find** an issue relevant to your classroom. **Share** the issue and **evaluate** the response with your classmates. If you find the site relevant, you may register on it for free.

Sharing Technology Assignment and Discussion

Web 2.0 Online Tools

1. Try at least one of the web tools listed on page 2 of the Instructional Technology Resources lesson, or choose from the list. Remember the age of your students and ***guidelines of your district*** in regards to use of technology.

- bubbl.us <http://bubbl.us/> (You can try without signing in.)
- Edmodo <http://www.edmodo.com/>
- Wordle <http://www.wordle.net/>
- Twiducate <http://www.twiducate.com/>
- <https://www.prodigygame.com/blog/ways-to-use-technology-in-the-classroom/>
- Google Maps <http://maps.google.com/>
- (For charts and graphs) Infographics <http://infogr.am/>
<http://prezi.com/prezi-for-education/> (The Learn and Support tab will show you how to use Prezi, and they offer a free download for educators.)
www.teachertube.com (Just put your subject or a unit title in the site's search box.)
- Any new technology application that you have heard of and have access to and that all of the class members could access (so no closed ISD apps and none that have been already dealt with in the module)

3. Include an idea for a student project for which you think this tool could be used and include the objective it will address.

4. Yes, this requires two peer responses and two additional resources, briefly explained. Think along the lines of additional samples of how that particular technology could be used.