

21st Century Skills Level II Course Syllabus (PEDT 9002)

COURSE DESCRIPTION

We are no longer preparing for the 21st century, it's here. And educators must help learners develop the essential skills needed for tackling a fluid present and an unknowable future. Creativity, collaboration, communication, critical thinking and problem solving—along with content and fueled by rapidly changing technology—are skills students, and teachers, need to master now to navigate and design the future.

With this course, those educators who already incorporate 21st Century methodologies, will build their own skills and learn to support students' abilities and strategies for college and career readiness, define what 21st century skills are, assess current practices, and create a plan to equip students for success in a global society and workplace.

COURSE OBJECTIVES

I can...	<u>ISTE Teacher Standards</u>
Model and promote 21st century skills as well as creative and innovative thinking for my students, my school, and my professional community	Standards: 1a, 1b, 1c, 1d
Design and/or adapt relevant learning experiences that incorporate digital tools and resources to promote student learning, creativity, and reflection, and that engage students in exploring real-world issues and solving authentic problems	Standards: 1b, 1d, 2a, 2b, 2d,
Demonstrate fluency in technology systems and the transfer of current knowledge to new technologies and situations	Standards: 3a
Communicate relevant information and ideas effectively to students, parents, and peers using a variety of digital age media and formats	Standards: 3c
Model and facilitate effective use of current and emerging digital tools to locate, analyse, evaluate, and use information resources to support research and learning	Standards: 3d
Develop and model cultural understanding and global awareness by engaging with colleagues and student of other cultures using digital age	Standards: 1a, 1b, 1d, 4d

communication and collaboration tools	
Participate in local and global learning communities to explore creative applications of technology to improve student learning	Standards: 5a, 5b, 5c

COURSE CONTENT

Pre-Assessment

Answer a short series of questions to discover what you do and don't know about 21st Century Skills - Level 2 and to think about your goals for this course. At the end of the course, you will take a short, summative post-assessment quiz, which offers you the opportunity to measure your growth.

Section 1: Introduction:

Journey along with educators who are transforming schools into centers of great learning using approaches and support systems required for 21st century learning.

Section 2: Profile of 21st Century Teachers and Learners

See how technology is transforming not only the look of, but also the approach to learning in the 21st century. As you examine the materials in this section, you can gather some ideas for how you could blend technology into your own curriculum.

Section 3: Integrating Problem Solving & Critical Thinking

Explore tech tools, video games, apps, and websites that foster critical thinking and problem solving. The resources in this section offer suggestions for teaching problem solving strategies, ideas on how to integrating media literacy, and reviews of tech tools that foster critical thinking skills.

Section 4: SAMR

The SAMR model Substitution, Augmentation, Modification, Redefinition will provide you with a framework to help you blend technology into your curriculum. Watch these videos to get an idea of how you can use technology to pave the way to 21st century learning.

Section 5: Curating Resources

Become a savvy collector and curator of educational resources, not only for the classroom but for professional development as well. The focus here is on learning how to use more sophisticated curation tools and storage such as Pinterest, Google Drive and the cloud.

Section 6: Using Tech Tools to Analyze Data

Tuva and Google Docs and Google Forms are remarkable tools for teaching social studies and science as a way of visualizing data and data sets. Explore these amazing tools and get some ideas for how you can use them in your content area.

Section 7: Using Technology to Connect, Communicate, & Collaborate

See how technology can expand the walls of your classroom, permitting students, families, and educators to connect, communicate, and collaborate and address the needs of all stakeholders.

Section 8: Developing Lessons with Technology

Craft lessons in your subject area that support and develop 21st century skills using tools and strategies designed for educators.

Post-Assessment

Answer a series of questions designed to give you a summative analysis of how much you learned about teaching with 21st Century Skills - Level 2. It will also help you check to see if you met your goals for this course. In addition, please make sure that you have submitted your Assessments of Knowledge (AOKs).

CONTRIBUTORS' BIOS

Jennifer Gibson, MA with an emphasis in technology, curriculum expert and professional trainer for 19 years, has presented to thousands of educators on topics including educational technology, English language development, and literacy. In 2010, she won the Santa Barbara Crystal Apple Teacher of the Year and Technology Innovator of the Year awards.

Rich Dixon, MA-TESL, brings over 19 years of experience as a teacher, administrator, staff developer, Director of IT, and Curriculum Coordinator. Whether leading EdTech courses or launching new schools, he strives to improve the effectiveness of instruction through intentional application of educational technology.