

Developing 21st Century Literacy Skills™ Online

Developing 21st Century Literacy Skills Online provides educators with 21st century frameworks and the reasons why information literacy is a critical skill in today's classroom. Using this information, educators will explore the roles of multimedia skills, evaluation, adaptability, and risk taking.

To the right are the key areas of focus for the eight-week online asynchronous course. For more information, refer to the syllabus, which provides a detailed outline of the course material as well as a bibliography of research on which the course is based.

In this course, participants will

- ▶ Apply information literacy skills and multimedia skills to evaluate online information sources.
- ▶ Explore the need for organizational and social change in order to integrate 21st century skills into today's classroom.
- ▶ Plan a project and a rubric which meet curricular goals and develop 21st century skills.
- ▶ Create a blog and build a personal learning network.
- ▶ Explore the applications of digital storytelling, the read/write Web, adaptability, and risk taking in the 21st century classroom.

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Course Description

This course introduces participants to existing frameworks for 21st-century skills developed by enGauge and the Partnership for 21st Century Skills. In particular, the course focuses on the importance of information literacy, adaptability, and risk-taking skills. Participants will also learn important multimedia skills and how to share their creations through read/write Web tools such as blogs, wikis, podcasts, and social networks. The course covers new metrics and means of evaluating student work as well as the need for organizational change in order to integrate these skills into existing educational institutions. For the culminating activity, each participant will plan a student project that meets curricular goals and helps to develop 21st-century skills.

Course Outcomes

Upon completion of this class, the learner is expected to be able to:

1. Define 21st-century skills and explain their importance in education.
2. Analyze existing frameworks of 21st-century literacy skills, including those from enGauge and the Partnership for 21st Century Skills.
3. Propose his or her own framework of 21st-century literacy skills.
4. Define information literacy and explain its importance in education.
5. Apply information literacy skills to evaluate the authenticity and value of online information sources.
6. Define adaptability and risk taking as 21st-century skills and explain their importance in education.
7. Evaluate his or her own adaptability and willingness to learn through risk taking.
8. Define multimedia skills and explain their importance in education.
9. Apply multimedia skills to design a project incorporating multiple types of media (text, images, audio, video).
10. Define digital storytelling and explain its importance in education.
11. Compose a digital story.
12. Define the read/write Web and specific tools (such as blogs, wikis, podcasts, and social networks), and explain the importance of the read/write web in education.
13. Create and use a professional blog for his or her own reflective practice.
14. Explain the need for new metrics and means of evaluating 21st-century skills.
15. Prepare a rubric for assessment of a student project that meets curricular goals and helps to develop 21st-century skills.
16. Explain the need for organizational and social change in order for educational institutions to integrate 21st-century skills into curriculum.
17. Plan a student project that meets curricular goals and helps to develop 21st-century skills.

Required Text

Warlick, D. F. (2008). *Redefining literacy 2.0* (2nd ed.). Worthington, OH: Linworth Publishing, Inc.

Instructors and learners will also use instructor-generated materials, learner-generated materials, and Web-based resources to facilitate learning.

Topical Outline	List of Concepts
21st-Century Skills	Discuss why 21st-century skills are important; identify existing frameworks (enGauge, Partnership for 21st Century Skills); create an original definition and framework
Information Literacy	Discuss why information literacy is a critical 21st-century skill; identify existing frameworks (Big6, ACRL, enGauge); complete an information literacy activity using Wikipedia
Adaptability and Risk Taking	Discuss why adaptability and risk taking are critical 21st-century skills; identify ways to provide a learning environment that rewards adaptability and risk taking (by encouraging sharing, constructive criticism, and learning from failure); complete an adaptability and risk-taking exercise and reflection process
Multimedia Skills	Discuss why multimedia skills are critical in the 21st-century; identify free media editing tools (images, audio, and video); create and share a multimedia project
Digital Storytelling	Discuss why digital storytelling is important; identify educational uses for digital storytelling and examples (storycenter.org, jakesonline.org); tell a digital story
Read/Write Web Skills	Discuss how the read/write Web changes education; identify educational uses for the read/write Web and examples; create a professional blog and start building a personal learning network online
Metrics and Assessment	Discuss the need for new metrics and evaluations for 21st-century skills; analyze rubric writing; begin development of a rubric for a student project that meets curricular goals and helps develop 21st-century skills (Note: development of this project is the culminating activity of the class.)
Organizational Change	Discuss the need for organizational and social change in order for educational institutions to fully integrate 21st-century skills into curriculum; complete development of the student project begun in Module 7

Course Assessments and Links to Course Outcomes

Throughout the course, the learner will be assessed and evaluated on the completion of the following assessments. Learning activities include large- and small-group discussions and assessments for a total of 781 points.

Modules	Topics of Modules	Points	Correlation With Course Outcomes
Module 1:	21st-Century Skills	104	1, 2, 3
Module 2:	Information Literacy	99	4, 5
Module 3:	Adaptability and Risk Taking	99	6, 7
Module 4:	Multimedia Skills	90	8, 9
Module 5:	Digital Storytelling	90	10, 11
Module 6:	Read/Write Web Skills	91	12, 13
Module 7:	Metrics and Assessment	82	14, 15
Module 8:	Organizational Change	126	16, 17
Total		781	

Criteria specific to each assessment will be explained in conjunction with the instructional activities.

Instructional Methodology

The instructional methodology of this course focuses on developing, enhancing, and improving the instructional expertise and pedagogical knowledge base of practicing educators. Strategies include presentation of new content through online readings, active construction of knowledge through practice and problem solving, collaborative group work, personal reflection, structured small-group or whole-class discussion, analysis of assigned reading, and the application of course content and skills to participant's individual grade level, subject area(s), and classroom.

Grading Scale

The course facilitator will post the grading scale.

Performance Learning Systems' Late Policy

There will be a 10% deduction of points per day for all posts and submitted assignments which are late. Replies posted after the due date will earn no points. In rare cases, partially or poorly completed assignments may be resubmitted for partial credit at the discretion of the instructor. The following exceptions apply:

- If a participant is sick/hospitalized or has a death in the family, the timing of makeup work may be arranged with the course facilitator. No points will be deducted if the work is completed according to the agreement.
- If a participant is on vacation/traveling/etc., the participant must contact the course facilitator ahead of time to avoid a penalty. This type of absence may occur only once during a course. All posts should be submitted for the missed module before leaving; replies may be completed according to agreed-upon timing when the participant returns.

- If a participant has difficulty completing everything in a week, an extension can be granted if the participant contacts the facilitator during the week (not at the last minute).

Performance Learning Systems' Participant Drop Policy

- Participants are eligible to receive a refund if they attend class for one week or less. This means participants must withdraw by the end of Module 1 to receive a refund.
- Refunds of the balance of tuition paid will be given, minus the \$50 deposit.

Performance Learning Systems' Academic Integrity Policy

Performance Learning Systems expects absolute academic honesty and integrity from every course participant. The specific Academic Integrity and Honor Code policies of our partner colleges and universities are embraced and enforced by PLS instructors. The following are considered to be serious violations:

- Plagiarism: the use of another's ideas, data, or words without proper acknowledgment.
- Fabrication: the use of invented information or the falsification of research or other findings with the intent to deceive.
- Collusion: improper collaboration with another in preparing assignments or projects.
- Cheating: an act of deception by which a student misrepresents that he or she has mastered information on an academic exercise that he or she has not mastered.
- Academic Misconduct: tampering with grades, or taking part in obtaining or distributing any part of student work that is not his or her own.

Violation(s) or suspected violation(s) will be investigated and pursued according to specific college/university procedures.

Identity Authentication

The college/university, Performance Learning Systems (PLS), and students share a joint responsibility to ensure that each student's contribution in an online course activity comes from that student alone. For the student, this responsibility has two parts:

1. Students are responsible for positively ensuring that every contribution to an online course created with the students' computer account is made by the student alone. Contributions covered under this policy include: written assignments; quiz and exam submissions; discussion forum postings; live participation in text-based chat sessions, phone conferences, and videoconferences. If a student allows another person to write or make any kind of submission to an online activity in the student's name, then this constitutes cheating and will be treated as a violation of academic honesty.
2. Students are responsible for ensuring the integrity of their computer account security by following the actions required of them by the PLS Acceptable Use Policy. These actions include keeping passcodes private, updating passcodes when required by Performance Learning Systems, and reporting breaches of the security policy to the IT Helpdesk.

Course Evaluation

The evaluation of learner work will be based on the defined criteria for learner assessments. The criteria for learner assessments will be outlined for students prior to instructional activities and engagement with student learning targets (outcomes). Grading

is based solely on the evaluation of student learning targets and defined criteria for learner assessments.

Formative assessment of learning outcomes is conducted throughout the course, using a variety of means that include the following: completion of assessments; constructive contributions to class discussions (whole-class as well as small-group); sharing of valuable, pertinent, and/or applicable ideas and experiences; and active participation in online interactions. It is expected that each participant will contribute to the academic quality of the course.

Summative assessment includes the completion of weekly learning activities and assignments for which the participant will need to synthesize class content, apply it to his or her own practice, and complete a plan for implementing the major components of content and skill acquired during the course.

Course Outcome Correlations With INTASC Standards for Teachers

	Course Outcomes
Standard 1: Subject Matter The teacher understands the central concepts, tools of inquiry, and structures of the discipline(s) he or she teaches and can create learning experiences that make these aspects of subject matter meaningful for students.	1, 17
Standard 2: Student Learning The teacher understands how children and youth learn and develop, and can provide learning opportunities that support their intellectual, social and personal development.	1, 2, 3, 4, 6, 8, 10, 12, 17
Standard 3: Diverse Learners The teacher understands how students differ in their approaches to learning and creates instructional opportunities that are adapted to diverse learners.	6, 14
Standard 4: Instructional Strategies The teacher understands and uses a variety of instructional strategies to encourage students' development of critical thinking, problem solving, and performance skills.	1, 8, 9, 12, 14, 17
Standard 5: Learning Environment The teacher uses an understanding of individual and group motivation and behavior to create a learning environment that encourages positive social interaction, active engagement in learning, and self-motivation.	
Standard 6: Communication The teacher uses knowledge of effective verbal, nonverbal, and media communication techniques to foster active inquiry, collaboration, and supportive interaction in the classroom.	1, 4, 8, 9, 10, 11, 12
Standard 7: Planning Instruction The teacher plans and manages instruction based upon knowledge of subject matter, students, the community, and curriculum goals.	1, 2, 3, 4, 6, 8, 10, 12, 14
Standard 8: Assessment The teacher understands and uses formal and informal assessment strategies to evaluate and ensure the continuous intellectual, social and physical development of the learner.	14, 15
Standard 9: Reflection and Professional Development The teacher is a reflective practitioner who continually evaluates the effects of her/his choices and actions on others (students, parents, and other professionals in the learning community) and who actively seeks out opportunities to grow professionally.	13
Standard 10: Collaboration, Ethics, and Relationships The teacher fosters relationships with school colleagues, parents, and agencies in the larger community to support students' learning and well-being.	16

The Interstate New Teacher Assessment and the Support for Consortium (INTASC) standards were developed by the Council of the Chief State School Officers and member states. Copies may be downloaded from the Council's website at <http://www.ccsso.org>.

© Council of Chief State School Officers. (1992) Model standards for beginning teacher licensing, assessment, and development: A resource for state dialogue. Washington, DC: Author. <http://www.ccsso.org/content/pdfs/corestrd.pdf>.

Course Outcome Correlations With National Board for Professional Teaching (NBPTS) Propositions and Standards

Proposition 1: Teachers are Committed to Students and Their Learning.	Course Outcomes
NBCTs are dedicated to making knowledge accessible to all students. They believe all students can learn.	1, 6, 14, 16, 17
They treat students equitably. They recognize the individual differences that distinguish their students from one another and they take account for these differences in their practice.	6, 14, 16
NBCTs understand how students develop and learn.	14, 16
They respect the cultural and family differences students bring to their classroom.	
They are concerned with their students' self-concept, their motivation and the effects of learning on peer relationships.	6, 16
NBCTs are also concerned with the development of character and civic responsibility.	16
Proposition 2: Teachers Know the Subjects They Teach and How to Teach Those Subjects to Students.	
NBCTs have mastery over the subject(s) they teach. They have a deep understanding of the history, structure and real-world applications of the subject.	1, 8, 17
They have skill and experience in teaching it, and they are very familiar with the skills gaps and preconceptions students may bring to the subject.	1, 2, 3, 4, 6, 8, 9, 10, 11, 14, 15
They are able to use diverse instructional strategies to teach for understanding.	8, 9, 10, 11, 12, 17
Proposition 3: Teachers are Responsible for Managing and Monitoring Student Learning.	
NBCTs deliver effective instruction. They move fluently through a range of instructional techniques, keeping students motivated, engaged and focused.	8, 9, 10, 11, 12, 17
They know how to engage students to ensure a disciplined learning environment, and how to organize instruction to meet instructional goals.	15, 17
NBCTs know how to assess the progress of individual students as well as the class as a whole.	14, 15
They use multiple methods for measuring student growth and understanding, and they can clearly explain student performance to parents.	14, 15
Proposition 4: Teachers Think Systematically about Their Practice and Learn from Experience.	
NBCTs model what it means to be an educated person – they read, they question, they create and they are willing to try new things.	1, 3, 7, 13, 16
They are familiar with learning theories and instructional strategies and stay abreast of current issues in American education.	1, 2, 3, 4, 6, 8, 9, 10, 11, 12, 14, 16, 17
They critically examine their practice on a regular basis to deepen knowledge, expand their repertoire of skills, and incorporate new findings into their practice.	7, 13

Proposition 5: Teachers are Members of Learning Communities.

NBCTs collaborate with others to improve student learning. **12, 13**

They are leaders and actively know how to seek and build partnerships with community groups and businesses. **12, 13**

They work with other professionals on instructional policy, curriculum development and staff development.

They can evaluate school progress and the allocation of resources in order to meet state and local education objectives.

They know how to work collaboratively with parents to engage them productively in the work of the school.

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Bibliography

- Evans, R. (1996). *The human side of school change: Reform, resistance, and the real-life problems of innovation*. San Francisco: Jossey-Bass.
- Fullan, M. (2001). *The new meaning of educational change*. (3rd ed.). New York: Teachers College Press.
- Medialiteracy.com. (2008). Welcome to the Web's major portal for media literacy education. Retrieved, June 11, 2008, from <http://www1.medialiteracy.com/>
- Multimedia literacy. (2008, May 30). In *Wikipedia, The Free Encyclopedia*. Retrieved June 11, 2008, from http://en.wikipedia.org/w/index.php?title=Multimedia_literacy&oldid=215944046
- NCREL & Metiri Group. (2003). *enGauge 21st century skills: Literacy in the digital age*. Retrieved January 17, 2008, from <http://www.ncrel.org/engauge/>
- Partnership for 21st Century Skills. (2004). *Framework for 21st Century Learning*. Retrieved July 23, 2008, from http://www.21stcenturyskills.org/index.php?option=com_content&task=view&id=254&Itemid=120
- Porter, B. (2004). About digital storytelling. Retrieved June 16, 2008, from <http://www.digitales.us/about/index.php>
- Prensky, M. (2001, October). Digital natives, digital immigrants. *On The Horizon*, 9(5). Retrieved July 23, 2008, from <http://www.marcprensky.com/writing/Prensky%20-%20Digital%20Natives,%20Digital%20Immigrants%20-%20Part1.pdf>
- Prensky, M. (2001, December). Digital natives, digital immigrants, part II: Do they really think differently? *On The Horizon*, 9(6). Retrieved July 23, 2008, from <http://marcprensky.com/writing/Prensky%20-%20Digital%20Natives,%20Digital%20Immigrants%20-%20Part2.pdf>
- Richardson, W. (2006). *Blogs, wikis, podcasts, and other powerful web tools for classrooms*. Thousand Oaks, CA: Corwin.
- Senge, P. M., Cambron-McCabe, N., Lucas, T., Smith, B., Dutton, J., & Kleiner, A. (2000). *Schools that learn: A fifth discipline fieldbook for educators, parents, and everyone who cares about education*. New York: Currency Doubleday.
- Warlick, D. F. (2004). *Redefining literacy for the 21st century*. Worthington, OH: Linworth.
- Warlick, D. F. (2005). *Raw materials for the mind: A teacher's guide to digital literacy*. Raleigh, NC: The Landmark Project.
- Warlick, D. F. (2007). *Classroom blogging: A teacher's guide to blogs, wikis, & other tools that are sharing a new information landscape*. Raleigh, NC: The Landmark Project.

