Chapter 12
ASSURE and 21st Century Challenges

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CIMT 543 Production of Instructional Materials
Preparing for Tomorrow’s Challenges

**GOAL**

- Understand factors influencing the advancement of 21st century teaching and learning

- The ASSURE Model and 21st Century Learning
- 21st Century Teachers
- 21st Century Learning Environments
Introduction

What are the factors influencing 21st century education?

- Digital tools used for
  - Work
  - Communication
  - Entertainment
- Requires continual advancement of
  - Schools
  - Teachers
- Advancement can be supported by
  - Using the ASSURE Model
  - Technology focused Professional Development
  - Technology grants
Recall the ASSURE Model from Chapter 3

We use the ASSURE model to systematically plan lessons that effectively integrate classroom use of technology and media.

- Analyze the Learners
- State Standards and Objectives
- Select Strategies, Technology, Media, and Materials
- Utilize Technology, Media, and Materials
- Require Learner Participation
- Evaluate and Revise
The ASSURE Model and 21st Century Learning

The ASSURE model supports the National Education Technology Plan

- #1 Analyze learners; helps teachers gather correct resources and prepare individual support
- #2-5 Help teachers to strategically plan technology integration lessons
- #6 Evaluate and revise; helps teachers assess student learning and the effectiveness of their lessons
21st Century Teachers

Improve student learning through informed pedagogy, technical competence and information literacy

- Technological Competence
- Information Literacy
- Technology-Focused Professional Development
- Professional Engagement
Technology Competence

Knowing how and when to use technology to enhance student learning

- Seamlessly integrate rich multimedia
- Use data from digital records to influence daily instruction
- Use digital tools for student assessments
- Students create digital audio, video, portfolios, etc.
Information Literacy

Teachers should demonstrate the following

- Skills
  - Accessing information
  - Verifying data
  - Appropriately acknowledging information sources
  - Following copyright regulations
- Communication with students and parents
  - Email
  - Discussion boards
  - Classroom website
- Willingness to explore new technologies for learning through participation in PLNs for lifelong learning
Technology-Focused Professional Development

Long-term and consistent professional development to maintain proficiency and have a positive impact on student learning

- ISTE, 2009 Teacher Professional Development Components for effective use of Technology
  - Preservice technology training aligned to inservice
  - Modeling of technology use by trainers and experienced teachers
  - Communities of practice
  - Professional engagement
  - School and district leadership
  - Online learning

- Address NETS-T Standards Compliance through
  - District or school-provided inservice vendor sessions
  - Workshops or webinars at educational conferences
  - Graduate coursework
Technology focused Professional Development

**NETS-T (Project D)**

1. Facilitate and inspire student learning and creativity
2. Design and develop digital-Age learning experiences and assessments
3. Model digital-age work and learning
4. Promote and model digital citizenship and responsibility
5. Engage in professional growth and leadership
21st Century Learning Environments

Expand into “global” classrooms that use technology for inclusion, connecting schools and homes, and offering choices of online education

- The Global Classroom
- Technology for Inclusion
- Technology Connects Schools and Homes
- Online Education
The Global Classroom

Digital Networks

- Multitude of resources
- Cross-cultural learning
- Global connections with teachers and students
- Live video
Technology for Inclusion

- Low-income and Minority Learners
- English Language Learners
- Learners with Disabilities

Address Digital Equity

- Legitimize the role culture plays in education
- Challenge perceptions about the role of technology
- Encourage others to recognize the link between technology professional development and practice
- Create opportunities for student access outside of school
- Seek funding for technology
Technology Connects Schools and Homes

Popularity of home computers

Class websites
- Contact information and calendars
- Outside links for content and skill practice

Lengthens learning time
- Homework help
- Additional resources
The Choice of Online Education

- **Growth of online learning in PK-12 environments**
  - Courses
  - Online resources
  - Online degree (FLVS)
  - Horizon Project  NMC Horizon Report > 2014 K-12 Edition

- **Bridges the gap**
  - Distance
  - Poverty
  - Limited course offerings

- **Use technology and media to address diverse needs and create global classrooms**
Demonstrating Professional Knowledge

1. Describe how the ASSURE model supports 21st century learning as described in the National Education Technology Plan.

2. Discuss the characteristics of a 21st century teacher who is technologically competent, information literate, and committed to professional growth and engagement.

3. List ways that 21st century environments use technology for inclusion, to connect schools and homes, and to offer the choice of online education.