Understanding Technology Integration In The Classroom

Upon completing this course, the participant will be able to:

• Understand Integrating Technology In The Classroom
  ◦ Looks at different ways to interpret what is meant by integrating technology in the classroom.
  ◦ Gives examples of how technology can be incorporated into the learning environment and why it is beneficial to do so.

• Examine Ways To Integrate Technology In The Classroom
  ◦ Presents how teachers can use technology in the class both to aid them in teaching and to enrich the student learning environment.
  ◦ Looks at how technology can be used outside the classroom to benefit the school system and parents.

• Examine Integrating Technology Behind The Scenes
  ◦ Investigates different ways technology can be used behind the scenes.
  ◦ Touches on different software applications that can enrich the learning environment.

• Identify The Need For Technology Integration
  ◦ Examines why technology integration is needed in the classroom.
  ◦ Identifies the benefits of such integration.

• Examine How Technology Can Affect Learning Methods
  ◦ Examines different methods of learning.
  ◦ Looks at how technology integration can help individual learning experiences.

• Explore Technology In Relation To Learning Theories
  ◦ Discusses some important points in learning theory.
  ◦ Examines how technology can be used with each point.

• Use Technology To Reach All Intelligence Types
  ◦ Explains Gardner's eight intelligence types.
  ◦ Examines how technology can be used to impact each intelligence type.

• Examine Benefits Of Technology Integration By Subject
  ◦ Breaks down how technology can benefit each of the following school subjects: language arts, social studies, math, and science.
  ◦ Points out how some of the tools can cross over a number of subject areas.

Preparing For Technology Integration

Upon completing this course, the participant will be able to:

• Plan For New Situations Arising From Technology Integration
  ◦ Lists possible situations that can arise in the learning environment due to wide-spread use of computers and the Internet.
  ◦ Emphasizes that time will alleviate any initial stress that might occur with technology integration.

• Look At Internet Privacy, Protection, And Security
  ◦ Looks at privacy and protection concerns surrounding children's use of the Internet.
  ◦ Addresses CIPA and how it can affect school libraries or schools receiving E-Rate funds.
  ◦ Discusses COPPA and how it affects teachers.
  ◦ Covers general ways to maintain a secure computer environment.

• Rethink Traditional Teaching Approaches
  ◦ Looks at teaching methods with a new perspective.
  ◦ Discusses how technology integration fosters a more student-centered approach to teaching.

• Look At Different Integration Strategies

Considering Challenges Of Technology Integration

Upon completing this course, the participant will be able to:

• Plan For New Situations Arising From Technology Integration
  ◦ Lists possible situations that can arise in the learning environment due to wide-spread use of computers and the Internet.
  ◦ Emphasizes that time will alleviate any initial stress that might occur with technology integration.

• Plan Lessons With Technology
  ◦ Examines questions that should be considered when planning lessons that use technology.
  ◦ Gives examples of how these questions help form a lesson plan.

• Determine Required Skills For Lessons Or Units
  ◦ Emphasizes the importance of knowing which skills are required for lessons or units involving technology.
  ◦ Suggests questions teachers should consider while planning lessons to help them determine necessary skills.

• Establish Whether Particular Technologies Suit Your Needs
  ◦ Reevaluates existing technology.
  ◦ Presents questions and strategies that can be used to examine and evaluate new technology.
  ◦ Provides resources to aid in researching new technologies.

• Teach Responsible Use Of Technology
  ◦ Examines responsible use of technology in the classroom.
  ◦ Cautions against various forms of copyright infringement.
  ◦ Encourages a positive attitude toward technology.

• Learn How To Evaluate Educational Web Resources
  ◦ Offers ways to discriminate between good and bad online educational resources.
  ◦ Discusses rubrics and provides examples of some that help evaluate Web resources.

Using Technology In Language Arts

Upon completing this course, the participant will be able to:

• Use Technology In Grades K-5 Language Arts
  ◦ Discusses how technology can be used in an elementary Language Arts classroom.
  ◦ Focuses on hardware, software, and the Internet.
  ◦ Provides examples of how various types of technology can be used.

• Use Technology In Grades 6-8 Language Arts
  ◦ Integrates technology into the middle school Language Arts classroom.
  ◦ Discusses using hardware and software to enrich the Language Arts classroom.
  ◦ Explores utilizing the Internet as a Language Arts resource.

• Use Technology In Grades 9-12 Language Arts
  ◦ Looks at integrating technology into the high school setting.
  ◦ Discusses researching higher education via the Internet.
  ◦ Examines using word processing software in your high school Language Arts classroom.
Upon completing this course, the participant will be able to:

• Use Technology In Grades K-5 Math
  ◦ Discusses several different types of technology.
  ◦ Gives examples of how to use technology in the K-5 classroom.
  ◦ Lists resources on the Internet for using technology in the classroom.

• Use Technology In Grades 6-8 Math
  ◦ Lists some examples of the types of technology used in grades 6-8 math classes.
  ◦ Gives examples of math lessons involving technology.
  ◦ Demonstrates how to incorporate technology into a grades 6-8 math classroom.

• Use Technology In Grades 9-12 Math
  ◦ Lists some examples of the major types of technology that can be used in high school math classes.
  ◦ Gives examples of high school lessons involving technology.
  ◦ Demonstrates how to incorporate technology into the high school math classroom.

• Create Review Games
  ◦ Explains the tasks necessary to create a math review game.
  ◦ Shows how to integrate technology into a math lesson plan.
  ◦ Looks at how to create questions for slide show flash cards.

• Create Probability Charts
  ◦ Distinguishes between the uses for different types of graphs.
  ◦ Discusses how spreadsheet and graphing software can be used to create various graphs, such as probability charts.

• Use Technology To Reinforce Time And Distance

• Create A Language Arts Rubric
  ◦ Looks at how to use a word processing program to create a Language Arts rubric.
  ◦ Demonstrates how to apply simple formatting to a rubric.
  ◦ Shows how to create a table to layout a rubric.

• Dramatize Literature
  ◦ Explores methods for dramatizing literature from your textbooks.
  ◦ Discusses how to build a library of recorded literature.
  ◦ Incorporates ideas for student-centered dramatic performances.

• Search A Topic
  ◦ Investigates an alternative to the traditional research paper.
  ◦ Explains how ISearch papers help students practice their writing and interpersonal skills.
  ◦ Explores practical investigation of a given topic.

Examines different ways in which technology can be incorporated, depending on how many computers are in the class.

Suggests questions that can be asked in order to find the best ways to implement technology in a classroom.

• Consider Centers
  ◦ Examines the purpose of learning centers.
  ◦ Suggests implementing learning centers in the classroom as a way of bringing technology into the learning environment.

• Plan Lessons With Technology
  ◦ Examines questions that should be considered when planning lessons that use technology.
    ◦ Gives examples of how these questions help form a lesson plan.

• Acquire Funds For Classroom Technology
  ◦ Gives pointers on how to acquire funds to help bring technology into the classroom.
  ◦ Points out Web sites that offer information about getting grants.

• Examine Tools For Evaluating The Effectiveness Of Technology Integration
  ◦ Points out that while traditional assessment tools are adequate for evaluating how effective some areas of technology integration have been, they are not always the best choice.
  ◦ Provides a glimpse into alternative ways you can evaluate the effectiveness of technology integration.

In Science

Upon completing this course, the participant will be able to:

• Use Technology In Grades K-5 Science
  ◦ Discusses the use of technology in the K-5 science classroom.
  ◦ Examines specific examples of how hardware, software, and the Internet can be used in K through 5 classrooms.
  ◦ Looks at technology as a teaching aid.

• Use Technology In Grades 6-8 Science
  ◦ Looks at how technology can be incorporated into science classrooms in grades 6 through 8.
  ◦ Examines how hardware, software, and the Internet can be used within the science classroom.
  ◦ Provides specific examples of science lessons that can be enhanced using technology.

• Use Technology In Grades 9-12 Science
  ◦ Looks at how to integrate technology in grades 9 through 12 science.
  ◦ Examines types of technology that can be used in the classroom.
  ◦ Explores specific examples of technology-based lessons.

• Utilize Technology For Science Projects
  ◦ Describes types of technology that can be used throughout the process of doing science projects.
  ◦ Looks at how technology can be incorporated into science project assignments.
  ◦ Examines online resources related to science projects.

• Use Technology To Learn About Weather
  ◦ Describes types of technology that can be used in lessons about weather.
  ◦ Looks at how the Internet can be used in these lessons.
  ◦ Explores some lesson ideas relating to weather.

• Use Simulations In A Science Class
Technology in the Classroom

Upon completing this course, the participant will be able to:

- Explores various types of science simulations.
- Examines how simulations can be used in all types of science classes.
- Looks at how simulations such as virtual dissection and virtual labs can benefit teachers and students.

Using Technology In Social Studies

Upon completing this course, the participant will be able to:

- Use Technology In Grades K-5 Social Studies
  - Discusses the different types of technology.
  - Gives examples of how to use technology in the K-5 classroom.
  - Lists resources on the Internet for using technology in the classroom.

- Use Technology In Grades 6-8 Social Studies
  - Lists some of the major types of technology.
  - Gives examples of lessons involving technology.
  - Demonstrates how to incorporate technology into the 6th through 8th grade social studies classroom.

- Use Technology In Grades 9-12 Social Studies
  - Lists some of the major types of technology.
  - Gives examples of high school lessons involving technology.
  - Demonstrates how to incorporate technology into the high school social studies classroom.

- Create A Simulated Society
  - Describes how to plan a lesson that utilizes different types of technology.
  - Shows how technology can be used to enhance a lesson.

- Search The Web For Social Studies Information
  - Discusses useful sites for conducting social studies searches.
  - Demonstrates how to navigate a search site to locate specific information.
  - Shows how to perform a search using a child friendly search engine.

- Examine The Use Of Rubrics In Social Studies Classes
  - Discusses rubrics and how they can be used to assess social studies assignments.
  - Gives examples of rubrics for different age groups.
  - Points out some specific considerations for social studies rubrics.
  - Explains that rubrics may be created manually or using a Web site.

Creating Class Materials

Upon completing this course, the participant will be able to:

- Create Handouts
  - Shows how handouts can be created easily using word processing applications.
  - Covers possible uses for classroom handouts.
  - Lists tips for designing effective handouts.
  - Demonstrates how to insert graphics and number lists.

- Save Templates
  - Recommends saving a document's structure as a template for reuse.
  - Suggests classroom documents that you might want to save as templates.
  - Shows how to save documents as templates.

- Explore Curriculum Pages
  - Explains what curriculum pages are.
  - Describes what should be included in curriculum

Examining Resources For Both Teachers And Students

Upon completing this course, the participant will be able to:

- Incorporate A GPS Into Your Curriculum
  - Discusses using a GPS unit in conjunction with typical curriculum.
  - Shows how to create a treasure hunt using a GPS unit.
  - Looks at how students can integrate a GPS unit into their work.

- Play Video Clips
  - Introduces Windows Media Player.
  - Explains that Windows Media Player can be used to view DVDs and digital video files, play audio files and CDs, and copy audio files to CD.
  - Demonstrates how easy it is to view a video clip on a computer with Windows Media Player installed.

- Examine Audio-visual Technologies
  - Explores the use of audio and visual devices in classroom teaching.
  - Examines various types of audio devices and how they might be used.
  - Discusses some visual aids and how they could be used to enhance instruction.

- Understand Handhelds
  - Explains what a handheld device is.
  - Explores the uses for handheld devices for teachers and students.
  - Discusses various types of handhelds, such as tablet PCs, word processors, and PDAs.

- Explore Digital Camera Use
  - Discovers the many ways in which a digital camera can be used in the classroom.
  - Discusses the advantages of digital cameras.
  - Reveals the ways to copy pictures taken with a digital camera.

- Understand Telecollaborative Projects
  - Discusses telecollaborative projects.
  - Talks about how these projects allow for communication and collaboration with other students, experts, and others through the Internet.
  - Suggests ways in which such projects can be used in and benefit a class.

Communicating With E-mail

Upon completing this course, the participant will be able to:

- Understand E-mail
  - Looks at electronic mail, or e-mail, and how it can be used to deliver messages across the Internet.
  - Examines two different types of e-mail accounts.

- Create E-mail Accounts
  - Demonstrates how to establish a Hotmail e-mail account.
  - Explains how to come up with a strong password.

- Log In And Read E-mail Messages
  - Shows how to log in to a new Hotmail account.
  - Walks through how to open and read e-mail messages you have received.

- Send Attachments With E-mails
  - Steps through how to compose a new e-mail message.
  - Illustrates how to attach a separate file as part of the
Upon completing this course, the participant will be able to:

- Points out how they facilitate learning by providing students with the links they want to go to during class.

- Create Curriculum Pages
  - Demonstrates how to create a curriculum page that points to where students can go to find information.
  - Covers how to link to Web destinations for students.
  - Shows how to add a graphical page border.

- Design Web Scavenger Hunts
  - Identifies Web scavenger hunts as educational activities that teach students how to use the Web as a research tool.
  - Shows how to link to the sites you want your students to visit in your scavenger hunts.

Communicating On The Web
Upon completing this course, the participant will be able to:

- Look At Internet Video Conferencing
  - Examines video conferencing over the Internet.
  - Discusses the equipment required for video conferencing.
  - Explores ways to use video conferencing in an educational setting.

- Examine Virtual Meetings
  - Looks at virtual meetings.
  - Explores virtual meeting services.
  - Discusses how to use virtual meetings in a learning environment.

- Communicate Through Chat Rooms
  - Examines Internet chat rooms.
  - Discusses the different types of available chat rooms.
  - Looks at ways to use chat rooms in the classroom.
  - Examines some of the issues with using chat rooms.

- Explore Discussion Boards
  - Examines discussion boards.
  - Looks at how discussion boards can be used in a classroom.
  - Looks at ways to use discussion boards for administrative tasks.

- Look At Blogs
  - Introduces and explores Weblogs, which are also known as blogs.
  - Explains various blogging terminology.
  - Looks at ways to use blogs in a classroom.

- Search For Educational Blogs
  - Shows how to refine a search on Google.
  - Demonstrates how to initiate a blog search on Google.
  - Shows how to send the message and the attached file to the recipient.

Integrating Podcasts in the Classroom
Upon completing this course, the participant will be able to:

- Use Podcasts in Collaborative Assignments
  - Offers some examples of how podcasts can be used in collaborative assignments.
  - Explains how to plan lessons with group projects incorporating audio or video podcasts into a variety of subjects.

- Set Up Podcasts for Absent Students
  - Describes some of the ways that podcasts can benefit absent students.
  - Explains some types of podcasts that can be made for absent students.

- Engage Parents with Podcasts
  - Explains how to use podcasts to communicate with parents.
  - Describes ways that podcasts can be used to share students’ work with their parents.
  - Offers a few platforms for sharing podcasts with parents.

- Prepare Substitute Teachers via Podcasts
  - Suggests ways that substitute teachers can be given class subject matter information via podcasts.
  - Shows how podcasts can be used to demonstrate a class period for a substitute teacher.
  - Explains how to use podcasts to give a substitute teacher instructions for a class.

- Integrate Podcasts in Elementary Education
  - Explains how to use podcasts to communicate with students' creative and productive activities.
  - Provides specific, usable, real-life examples for elementary education.

- Integrate Podcasts in English
  - Describes how to use podcasts in secondary-level English classes.
  - Gives specific, usable, real-life examples for teachers.

- Integrate Podcasts in Math
  - Explains how to use podcasts and vodcasts in education.
  - Offers ideas for creating podcasts for elementary level plans.
  - Explores helping students learn by creating their own podcasts.

- Integrate Podcasts in Social Studies
  - Describes how to use podcasts in secondary-level social studies classes.
  - Provides specific, usable, real-life examples for teachers.

- Integrate Podcasts in Fine Arts
  - Describes how to use podcasts in some types of fine arts classes.
  - Gives specific, usable, real-life examples for teachers.