

## **Transforming Instruction through the Integration of Web Tools**

### **Workshop Overview**

The World Wide Web from over two decades ago delivered information—a website's owner created content for others to view. Today's Web, thanks to new developments in technology is characterized by collaboration and user interactivity. There are a multitude of Web-based tools that allow people to collaborate and share information with each other. The participatory nature of the web has caught the interest of many educators; students can create and share content, collaborate with each other, and build knowledge communities using the same tools that they enjoy using outside of school. Many educators are sharing their ideas through various personal learning networks and sharing how these new tools can be used effectively in the classroom. In this three-credit 45 hour course, K-12 teachers and staff will learn how to develop and grow their own personal learning networks, to identify student internet privacy practices and accessibility, to learn more about the web and how to harness the interactive and collaborative nature of the tools to better engage, educate, and transform instruction through effective technology integration.

### **Outcomes**

During this workshop, participants will learn skills and strategies to:

- Identify the characteristics of Web Tools and apply digital citizenship and practices around Internet privacy to the application of these tools to instructional and professional practice.
- Participants will acquire professional knowledge from Web Tools.
- Participants will identify and implement Web Tools to share online or teacher created content with students or colleagues.
- Participants will identify and implement Web Tools that facilitate student voice in the classroom.
- Participants will identify and implement Web Tools that facilitate collaboration.
- Participants will integrate Web Tools, including video conferencing tools, in the classroom.

### **Alignment to Standards**

This workshop meets the standards for Content, Instructional Design, and Technology as defined in the [National Standards of Quality for Online Courses](#), published by the [International Association for K-12 Online Learning](#) (iNACOL).

This workshop provides teachers with an opportunity to meet the Engage in Professional Growth and Leadership standard as defined in the [National Educational Technology Standards and Performance Indicators for Teachers](#), published by the [International Society for Technology in Education](#) (ISTE).

The Maryland Teacher Technology Standards (MTTS) provide the basis for the professional knowledge and skills teachers need to master to address the student learning needs. The course participants will develop skills and understandings for the following MTTS standards:

- Access, evaluate, process and apply information efficiently and effectively.
- Use technology effectively and appropriately to interact electronically.
- Use technology to analyze problems and develop data-driven solutions for instructional and school improvement.
- Design, implement, and assess learning experiences that incorporate use of technology in a curriculum-related instructional activity to support understanding, inquiry, problem solving, communication and/or collaboration.

- Develop professional practices that support continual learning and professional growth in technology.

## **Course Outline**

### **Session 1: Harnessing Web Tools**

#### **Guiding Question:**

What are Web Tools and what are important considerations that I need to make when I use Web Tools instructionally and professionally?

#### **Description:**

The term Web 2.0 refers to web applications that facilitate collaboration and information sharing on the Internet. It involves creating, collaborating, editing, and sharing user-generated content online through social media resources and online collaboration tools. These tools are extending classroom walls and changing the way K-12 educators use the Internet. In this introductory session, you will read articles to extend your understanding of Web Tools, investigate classroom examples, and discuss the impact of these technologies for teaching and learning in the 21<sup>st</sup> century. You will explore digital citizenship and Internet privacy practices and apply these concepts throughout the course.

#### **Outcome:**

Identify the characteristics of Web Tools and apply digital citizenship and Internet privacy practices as well as knowledge of accessibility to the application of these tools to instructional and professional practice.

#### **Indicators:**

Participants will:

- Define Web Tools and list important characteristics to consider when selecting professional and instructional Web Tools.
- Model digital citizenship when applying Web Tools to the classroom.
- Identify practices around internet privacy applicable to instructional application of Web Tools.
- Considering the Web Content Accessibility Guidelines when evaluating web tools to ensure that technologies are accessible to individuals with disabilities.

### **Session 2: Creating and Participating in Personal Learning Networks**

#### **Guiding Question:**

How can Web Tools influence my professional practice?

#### **Description:**

The new tools and processes of Web Tools facilitate for the educator continual and highly customizable professional learning experiences through the creation of a Personal Learning Network. The Professional Learning Network allows individuals to connect with people who share interest and passion in forming a community of learners. In this session, you will network through Web Tools to engage in professional dialogue with other educators. You will explore a

range of tools that can be used to support connections with other educators, but specifically focus on Twitter, a social networking and microblogging service that allows you to send out short messages called tweets.

**Outcome:**

Participants will acquire professional knowledge from Web Tools.

**Indicators:**

Participants will:

- Identify a list of Web Tools that an educator can use to enhance professional practice.
- Establish and use a Twitter account to follow other educators.
- Identify and apply content learned from other professionals through my Personal Learning Network.

### **Session 3: Organizing and Sharing Content**

**Guiding Question:**

How can I organize and share content with my students?

**Description:**

There is a wealth of multimedia content available online. Much of this content can help you address the diverse needs of your students. Finding the time to curate all of these digital resources is a challenge for busy teachers. In this session, you will learn how to organize digital resources more efficiently using Web Tools, including social bookmarking tools. You will use a Web 2.0 Tool to share several high-quality resources on the Web with your students. You will also identify gaps within the online content and use Web Tools to deliver teacher created content to students.

**Outcome:**

Participants will identify and implement Web Tools to share online or teacher created content with students or colleagues.

**Indicators:**

Participants will:

- Explore Web Tools that allow for web based content to be organized and shared.
- Explore Web Tools that allow for teacher creation of content.
- Establish an account in a Web Tool designed for organizing and sharing content and use that tool to share content with students or colleagues.
- Establish an account in a Web Tool in order to create content to share with students or colleagues.
- Model digital citizenship when applying Web Tools to classroom practice.
- Reflect on the application of a Web Tool used for organizing content in the classroom.

### **Session 4: Student Voice**

**Guiding Question:**

How can Web Tools provide a voice to the students in my classroom?

**Description:**

Web Tools offer exciting new possibilities for involving learners in meaningful conversations and dialogue in the classroom as well as exchanging ideas and co-construction of learning. These efficient and effective Web Tools offer a vehicle for evaluating and reflecting on learning as well as opportunities for formative assessment. In this session, you will use Web Tools to take student participation to another level in your classroom as you provide every student a voice.

**Outcome:**

Participants will identify and implement Web Tools that facilitate student voice in the classroom.

**Indicators:**

Participants will:

- Explore Web Tools that facilitate student voice in the classroom.
- Use a Web Tool within an instructional activity to facilitate student voice.
- Model digital citizenship when applying Web Tools to classroom practice.
- Reflect on the application of a Web Tool used for facilitating student voice.

**Session 5: Collaboration Inside and Outside of the Classroom****Guiding Question:**

How can Web Tools facilitate collaboration within the classroom and outside of the classroom walls?

**Description:**

Web Tools emphasize participation and enable teachers and learners to share ideas and collaborate in innovative ways. Web Tools provide opportunity for students to move from consumer of knowledge to creator and within that creation interact and collaborate with other students, the instructor, and other people. These collaborative tools allow students to construct collaborative content, provide and receive critique, and make new learning connections. In this session you will explore the collaborative power of Web Tools, implementing one in your classroom and reflecting on that implementation.

**Outcome:**

Participants will identify and implement Web Tools that facilitate collaboration.

**Indicators:**

Participants will:

- Explore Web Tools that facilitate collaboration.
- Use a Web Tool within an instructional activity to facilitate student-student or student-teacher collaboration.
- Model digital citizenship when applying Web Tools to classroom practice.
- Reflect on the application of a Web 2.0 tool used for collaboration.

**Session 6: Transformative Video Conferencing****Guiding Question:**

How can video conferencing transform learning?

**Description:**

Google Hangout, FaceTime, Facebook Live, Skype ... Different products, but the commonality in the ability to connect people in real time. Personally, you most likely have used one of these tools to connect with a family member or catch up with a friend, but there is also transformative power for teaching and learning. In this session, you will be introduced to video conferencing applications and discover ways in which this tool can facilitate transformational learning opportunities. Also in this session, you will complete your final project, a Web 2.0 Mind Mapping Tool, where you will share 15-20 Web Tools that you will be exploring further for use in the classroom and your initial classroom integration ideas.

**Outcome:**

Participants will integrate Web Tools, including video conferencing tools, in the classroom.

**Indicators:**

Participants will:

- Explore video conferencing tools.
- Plan an instructional activity which implements video conferencing
- Model digital citizenship when applying Web Tools to the classroom practice.
- Choose and apply Web Tools to a specific content and grade level, displaying those on a Mind Map with corresponding integration ideas.