Course Title: Web 2.0 Tools	**Length of Course:** 15 cycles
Grade Level(s): 9-12	**Periods Per Cycle:** 6
Units of Credit: .5	**Length of Period:** 43 minutes
Classification: Elective	**Total Instructional Time:** 64.5 hours

Course Description

This course introduces students to the most recent Web 2.0 Tools available. The students will be encouraged to learn and explore the tools and to create student projects using Web 2.0 Tools. Unlimited access to Web 2.0 Tools will be accessible to students while in this course. Focus – Current Web 2.0 Tools

Instructional Strategies, Learning Practices, Activities, and Experiences

Content Introductions	Peer Review	Guest Speakers/Success Stories
Hands-On Practice Through Tutorials	Final Projects	Online Competitions
Independent Research		

Assessments

Google Docs	ToonDoo	Wordles/Tagxedo/ThingLink
Educreations	Piktochart	Quizlet
MindMup	Screencast-O-Matic Or Sparks Video	Student Final Project Folder
	Windows Movie Maker Or iMovie	

Materials/Resources

Web 2.0: Concepts and Applications Textbook	iPad, VMware Horizon (Virtual Desktop) App

Adopted: 5/21/2012

Revised: 5/21/18

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The Web Becomes 2.0

CONTENT/KEY CONCEPTS	OBJECTIVES/STANDARDS
How the Web Has Changed Features of Web 2.0 Applications Related Vocabulary: Web 2.0 tags bandwidth dot-coms web browser tabbed browsing password strength authentication credentials profile page beta web client client-server model predictive look-ahead	The students will be able to: - Explain social and technological developments that led to Web 2.0. - Describe the web browser. - Explain a culture of participation. - Describe and interact with the web as a platform for running applications. - Describe a database-backed web. - Describe software accessibility on many devices. - Describe the term rich user experience. **15.4.12.A** ~ Apply the creative and productive use of emerging technologies for educational and personal success. **15.4.12.B** ~ Evaluate the impact of social, legal, ethical, and safe behaviors on digital citizenship. **15.4.12.C** ~ Develop criteria for analyzing hardware options to meet defined needs. **15.4.12.D** ~ Evaluate emerging input technologies. **15.4.12.F** ~ Compare and contrast network environments, including the function of network devices and connectivity issues. **15.4.12.G** ~ Create an advanced digital project using sophisticated design and appropriate software/applications. **15.4.12.K** ~ Evaluate advanced multimedia work products and make recommendations based on the evaluation. **15.4.12.L** ~ Find and use primary documentation; employ an accepted protocol for citation. **15.4.12.J** ~ Create a complex computer program to solve a problem. **15.4.12.M** ~ Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field.

Publishing Online	
CONTENT/KEY CONCEPTS	**OBJECTIVES/STANDARDS**
The Structure of Web-Based Applications Understanding Blogs Interacting with a Blogger Blog Blogging with Multimedia Understanding Wikis Related Vocabulary: blogs wikis web site architecture three-tiered architecture presentation tier middle tier database tier blogging application bloggers permalink blog members blog roll corporate blogs citizens journalists world live web proprietary software open source software plug-ins text-editor gadgets compressed image format uncompressed image format embedded video blogs What You See Is What You Get (WYSIWG)	The students will be able to: • Explain the structure of web-based applications. • Describe the Blogosphere. • Utilize the feature of searching frequently updated web content. • Explain and interact with web-based blogging applications. • Explain and demonstrate posting to a blog. • Explain and demonstrate configuring a blog's setting. • Explain and demonstrate specifying a blog's layout. • Explain and demonstrate including images in blog posts. • Explain and demonstrate embedding multimedia content on a blog. • Explain and demonstrate video blogging. • Explain and utilize web-based wiki applications. • Explain and demonstrate interacting with a wiki. • Describe and interact with Wikipedia. • Describe and interact with Google Wave. **15.4.12.A** ~ Apply the creative and productive use of emerging technologies for educational and personal success. **15.4.12.B** ~ Evaluate the impact of social, legal, ethical, and safe behaviors on digital citizenship. **15.4.12.C** ~ Develop criteria for analyzing hardware options to meet defined needs. **15.4.12.D** ~ Evaluate emerging input technologies. **15.4.12.F** ~ Compare and contrast network environments, including the function of network devices and connectivity issues. **15.4.12.G** ~ Create an advanced digital project using sophisticated design and appropriate software/applications. **15.4.12.K** ~ Evaluate advanced multimedia work products and make recommendations based on the evaluation. **15.4.12.L** ~ Find and use primary documentation; employ an accepted protocol for citation. **15.4.12.J** ~ Create a complex computer program to solve a problem. **15.4.12.M** ~ Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field.

Syndicating Content	
CONTENT/KEY CONCEPTS	**OBJECTIVES/STANDARDS**
Exploring Web Feeds Formats For Web Feeds Exploring Podcasts Related Vocabulary: syndication web feed feed reader Really Simple Syndication (RSS) publish/subscribe model Rich Site Summary (RSS) feeds atom podcast podcast reader show notes	Students will be able to: - Explain finding feeds. - Explain and demonstrate how to locate blogs, RSS, and atom feeds. - Describe the structure of RSS and atom feeds. - Describe features of podcast readers. - Describe the anatomy of a podcast feed. - Explain and demonstrate creating podcasts. - Explain and demonstrate configuring blogger to support podcasts. **15.4.12.A** ~ Apply the creative and productive use of emerging technologies for educational and personal success. **15.4.12.B** ~ Evaluate the impact of social, legal, ethical, and safe behaviors on digital citizenship. **15.4.12.C** ~ Develop criteria for analyzing hardware options to meet defined needs. **15.4.12.D** ~ Evaluate emerging input technologies. **15.4.12.F** ~ Compare and contrast network environments, including the function of network devices and connectivity issues. **15.4.12.G** ~ Create an advanced digital project using sophisticated design and appropriate software/applications. **15.4.12.K** ~ Evaluate advanced multimedia work products and make recommendations based on the evaluation. **15.4.12.L** ~ Find and use primary documentation; employ an accepted protocol for citation. **15.4.12.J** ~ Create a complex computer program to solve a problem. **15.4.12.M** ~ Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field.

Organizing Information	
CONTENT/KEY CONCEPTS	**OBJECTIVES/STANDARDS**
Organizing Digital Information Sharing and Tagging Photos on Flickr Social Bookmarking with Delicious Related Vocabulary: social bookmarking hierarchical nonhierarchical tag cloud collaborative filtering photo stream creative commons favorites bookmarks Linkroll tag rolls	The students will be able to: • Explain and demonstrate organizing information on your computer. • Explain and demonstrate tagging information on the Web. • Explain and demonstrate tagging as a means of collective organization. • Explain and demonstrate using tagged data. • Explain and demonstrate interacting with Flickr. • Explain and demonstrate the advanced features of Flickr. • Explain and demonstrate sharing and tagging bookmarks with Delicious. • Explain and demonstrate interacting with Delicious. • Explain and demonstrate the advanced features of Delicious. **15.4.12.A** ~ Apply the creative and productive use of emerging technologies for educational and personal success. **15.4.12.B** ~ Evaluate the impact of social, legal, ethical, and safe behaviors on digital citizenship. **15.4.12.C** ~ Develop criteria for analyzing hardware options to meet defined needs. **15.4.12.D** ~ Evaluate emerging input technologies. **15.4.12.F** ~ Compare and contrast network environments, including the function of network devices and connectivity issues. **15.4.12.G** ~ Create an advanced digital project using sophisticated design and appropriate software/applications. **15.4.12.K** ~ Evaluate advanced multimedia work products and make recommendations based on the evaluation. **15.4.12.L** ~ Find and use primary documentation; employ an accepted protocol for citation. **15.4.12.J** ~ Create a complex computer program to solve a problem. **15.4.12.M** ~ Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field.

Connecting People	
CONTENT/KEY CONCEPTS	**OBJECTIVES/STANDARDS**
Common Features of Social Networking Applications Connecting with Friends On Facebook Business and Professional Networking with LinkedIn Twitter Related Vocabulary: social media applications networking application microblog status message friend contact profile second-level contacts extended contacts wall tab news feed privacy policy LinkedIn twitter tweet retweets hashtag	The students will be able to: • Describe common features of social networking applications. • Explain and demonstrate connecting with Facebook. • Explain and demonstrate extending Facebook with applications. • Describe privacy concerns. • Explain and demonstrate business and professional networking with LinkedIn. • Explain and demonstrate using Twitter. • Explain and demonstrate finding and following people on Twitter. • Explain and demonstrate using Twitter Applications. • Describe Uniform Resource Locator (URL) Softeners. **15.4.12.A** ~ Apply the creative and productive use of emerging technologies for educational and personal success. **15.4.12.B** ~ Evaluate the impact of social, legal, ethical, and safe behaviors on digital citizenship. **15.4.12.C** ~ Develop criteria for analyzing hardware options to meet defined needs. **15.4.12.D** ~ Evaluate emerging input technologies. **15.4.12.F** ~ Compare and contrast network environments, including the function of network devices and connectivity issues. **15.4.12.G** ~ Create an advanced digital project using sophisticated design and appropriate software/applications. **15.4.12.K** ~ Evaluate advanced multimedia work products and make recommendations based on the evaluation. **15.4.12.L** ~ Find and use primary documentation; employ an accepted protocol for citation. **15.4.12.J** ~ Create a complex computer program to solve a problem. **15.4.12.M** ~ Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field.

Linking Data

CONTENT/KEY CONCEPTS	OBJECTIVES/STANDARDS
Computing In the Cloud Computing In the Cloud with Google Docs Related Vocabulary: cloud computing infrastructure as a service platform as a service software as a service public cloud hybrid cloud private cloud virtual computer virtual server server farm google docs	The students will be able to: • Describe infrastructure as a service; computing in the Cloud. • Describe platform as a service; application development in the Cloud. • Describe software as a service; applications in the Cloud. • Explain and demonstrate computing in the Cloud with Google Docs by creating Google Docs unique to a specific need. **15.4.12.A** ~ Apply the creative and productive use of emerging technologies for educational and personal success. **15.4.12.B** ~ Evaluate the impact of social, legal, ethical, and safe behaviors on digital citizenship. **15.4.12.C** ~ Develop criteria for analyzing hardware options to meet defined needs. **15.4.12.D** ~ Evaluate emerging input technologies. **15.4.12.F** ~ Compare and contrast network environments, including the function of network devices and connectivity issues. **15.4.12.G** ~ Create an advanced digital project using sophisticated design and appropriate software/applications. **15.4.12.K** ~ Evaluate advanced multimedia work products and make recommendations based on the evaluation. **15.4.12.L** ~ Find and use primary documentation; employ an accepted protocol for citation. **15.4.12.J** ~ Create a complex computer program to solve a problem. **15.4.12.M** ~ Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field.