Arkansas CTE

Web Design and Multimedia Productions: Grades 11, 12

Adopted 2007

Introduction to Multimedia

1.1 Define terminology

1. Prepare a list of terms with definitions 1.1.1

1.2 Explain various ways of accessing the Internet

1. Identify types of browsers 1.2.1
2. Identify search engines 1.2.2
3. Describe search techniques 1.2.3

1.3 Describe the basic components of a development system used for multimedia

1. Identify some of the equipment used 1.3.1

1.4 Identify the laws and regulations affecting multimedia

1. Differentiate between freeware and shareware 1.4.1
2. Explain fair use laws that apply to education multimedia productions 1.4.2

1.5 Discuss file compression

1. Recognize why file compression is necessary when dealing with multimedia applications 1.5.1

Graphic Editing

2.1 Define terminology

1. Prepare a list of terms with definitions 2.1.1

2.2 Identify different text formats

1. Discuss fonts and font characteristics 2.2.1

2.3 Identify various graphic formats

1. Explain graphic file formats:
bitmap
vector graphics
Gif
JPEG
others 2.3.1
2. Locate and obtain graphics from the Internet 2.3.2

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Demonstrate use of hardware used for graphics and text

1. Scan an image and/or text 2.4.1

2. Take a picture using a digital camera and upload to your computer 2.4.2

2.5 List types of graphic software

1. Compare and contrast graphic software applications 2.5.1

2.6 Edit images using a graphic software

1. Demonstrate how to transform images: software
crop
scale
rotate
skew
distort 2.6.1
2. Apply color adjustments to a photo:
brightness
contrast
hue
saturation 2.6.2
3. Demonstrate photographic manipulation:
changing heads
changing backgrounds
liquefying
blurring
retouching
layering
opacity
others 2.6.3

Animation

3.1 Define terminology

1. Prepare a list of terms with definitions 3.1.1

3.2 List types of software used to create animations

1. Compare and contrast various animation create animations software 3.2.1

3.3 Demonstrate how to create an animation

1. Create an animation 3.3.1

Using Sound/Music

4.1 Define terminology

1. Prepare a list of terms with definitions 4.1.1

4.2 Describe different types of sound files

1. Locate and save a WAVE file from the sound files Internet 4.2.1
2. Find and save a MIDI file from the Internet 4.2.2
3. Use a ripper to extract music from a CD 4.2.3

4.3 Demonstrate use of hardware for sound

1. Use a microphone and save your waveform 4.3.1
2. Use speakers 4.3.2

4.4 Demonstrate how to manipulate a sound file

1. Edit a sound file 4.4.1

Video Editing

5.1 Define terminology

1. Prepare a list of terms with definitions 5.1.1

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Describe the most commonly used file formats for video

1. Compare and contrast different video file formats 5.2.1

5.3 Describe sources for obtaining digital video

1. Locate and save a digital video from the Internet 5.3.1
2. Use a digital camcorder to create a video and upload to your computer 5.3.2
3. Use a video capture device to extract video from a VCR/DVD 5.3.3

5.4 List types of video editing software

1. Differentiate between types of video editing software 5.4.1

5.5 Edit video and sound using a video editing software

1. Add several video clips to a timeline 5.5.1
2. Add several sound clips to a timeline with fade in and outs between clips 5.5.2
3. Add special video effects:
blur
crop
zoom
dissolve
slow motion
chroma keying
fade
others 5.5.3
4. Add transitions between video clips 5.5.4
5. Split video/sound clips using software tools 5.5.5
6. Render a completed video 5.5.6
7. Export the timeline as a video file 5.5.7

Introduction to HTML, JavaScript, and Creating a Multimedia Web Site

6.1 Define terminology

1. Prepare a list of terms with definitions 6.1.1

6.2 Identify Web page design software

1. Explain features of various Web page design software 6.2.1

6.3 Discuss design considerations and planning steps in developing an effective Web site

1. Explain features considered when planning a Web site 6.3.1
2. Evaluate Web sites for effectiveness 6.3.2
3. Determine target audience 6.3.3
4. Develop storyboard 6.3.4
5. Edit storyboard 6.3.5
6. Finalize storyboard 6.3.6

6.4 Create a Web site using HTML

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1. Create a Web site with components such as:
titles
background colors or images
background sound
scrolling marquee
horizontal ruled line
graphics and/or animated gifs
appropriate text (changing fonts, colors, and sizes)
hyperlink pages together with text and/or graphics
table with pertinent information and graphics 6.4.1

6.5 Add JavaScript special effects

1. Use a site with downloadable scripts to add to your Web site 6.5.1

6.6 Identify components of a Web site

1. Create a multipage Web site using site components such as:
themes/frames
scrolling marquees
page transitions
thumbnails
alternative text
page captions
tables
hover/rollover buttons
forms
image map/hot spot 6.6.1

6.7 Add multimedia to your Web site

1. Insert sounds, video, graphics, and text to enhance your Web site 6.7.1

6.8 Identify methods of publishing a Web site

1. Demonstrate how to publish a Web site 6.8.1