Objective 106.02

Understand digital video production methods, software, and hardware.



Course Weight: 15%







Three Phases for Producing Digital Video:

1. Pre-Production

define parameters of the project and make preliminary decisions

2. Production

use a camera to collect footage

3. Post-Production

edit the footage to convey the intended message to the audience; optimize the video file for specific client needs





1. Pre-Production

- ✓ Determine the overall purpose of the project
- ✓ Define the intended target audience
- ✓ Use a storyboard to determine sequence of events in the video and provide client with a visual representation of ideas
- ✓ Consult with the client to write a script that effectively conveys the intended message





1. Pre-Production (continued)

- ✓ Determine specific hardware needs
 - Computer
 - Video Camera(s)
 - Microphone to Capture Audio
 - Tripod to Steady Camera Shots
 - Lights (if necessary)





1. Pre-Production (continued)

✓ Determine specific software needs

Video Editing Software

captures video from the camera media and imports into the editing software

manipulates video footage and adds the desired effects to convey the intended message





2. Production

- ✓ Setup equipment such as tripods, cameras, and lighting
- √ Record footage according to the storyboard
- √ Save and organize recorded video





2. Production (continued)

Frame Composition Terms:

- Rule of Thirds

mentally dividing the frame into thirds both horizontally and vertically (similar to a tic-tac-toe board); subject should occupy two-thirds of the frame

- Wide Shot

shows subject and location/environment in its entirety (ex: framing a subject from head to toe)

- Medium Shot

shows a part of the subject with more detail while still giving an impression of the location/environment

(ex : framing a subject from waist up)





2. Production (continued)

Frame Composition Terms: (continued)

- Close-Up Shot

shows a particular part of a subject with more detail (ex: framing a subject from shoulders up)

- High Angle Shot

when camera location is above normal eye-level compared to the subject (makes the subject appear small, weak, inferior, or scared)

Low Angle Shot

when camera location is below normal eye-level compared to the subject (makes the subject appear tall, powerful, dominating, or scary)





2. Production (continued)

Camera Movements:

- Zoom

uses the mechanics of the camera's lens to make the subject appear closer or further away; physical location of the camera does not change

- Pan

horizontally pivoting the camera left or right; physical location of the camera does not change

Tilt

vertically pivoting the camera up or down; physical location of the camera does not change





2. Production (continued)

Camera Movements: (continued)

- Dolly

the camera physically moves toward or away from the subject to make it appear closer or further away

- Truck

the camera physically moves horizontally (left or right)

- Crane

the camera physically moves vertically (up or down)





2. Production (continued)

Camera Operation Terms:

- Focus

adjusting the camera's lens settings to make the footage of the subject clear and not blurry

- White Balance

adjusting the camera's color settings to match true white; results in all other colors becoming balanced

- Iris

adjust the camera's lens settings to allow the appropriate amount of light into the camera

* some cameras adjust these three properties automatically while shooting





3. Post-Production

- ✓ Import recorded footage into the video editing software or gather existing footage from outside sources
- ✓ Select, edit, and assemble the video clips according to the storyboard
- ✓ Adjust audio levels, add titles, add transitions to the video clips to convey the intended message to the audience





3. Post-Production (continued)

Optimize and export the video output file for specific client needs, including:

- ✓ Primary use of video production
- √ File size requirements
- √ File format requirements





3. Post-Production (continued)

Common Video File Formats:

.MOV

- uses the Quicktime® player for video playback
- standard video format for Apple® computers

.AVI

- standard video format for Microsoft® PCs

.WMV

- uses the Windows® Media Player for video playback
- Microsoft® file format used for streaming on the Internet





3. Post-Production (continued)

Common Video File Formats:

.FLV

- uses the Adobe® Flash Player for video playback
- commonly used for embedding videos on the Internet

.MPEG-2

- format used for DVDs

.MPEG-4

- format used for Blu-Ray Discs (better quality than MPEG-2)
- standard for streaming videos over the Internet

