

Strands & Standards

VIDEO PRODUCTION 1



COURSE DESCRIPTION

This course is designed to provide students with the basic knowledge and skills related to the video production industry. This includes instruction and hands-on assignments in the following areas: camera operation, audio systems, lighting systems, pre-production, studio operations, control room operations, visual effects and graphics, and copyright laws.

License Type

CTE and/or
Secondary Education 6-12

Required Endorsement

TV Broadcasting

Intended Grade Level: 10-12

Units of Credit: 0.5

Core Code: 40.01.00.00.030

CE Core Code: 40.01.00.13.030

Prerequisite: None

Skill Certification: 592

Test Weight: 0.5

Strands & Standards

STRAND 1 Students will be able to understand and demonstrate the correct operation of the camera.

- Standard 1** Basic parts of a camera
- Image Sensor (CCD/CMOS)
 - Lens
 - Body
 - Viewfinder

- Standard 2** Camera movements
- Pan
 - Truck
 - Dolly
 - Arc
 - Pedestal
 - Tilt

- Standard 3** Picture composition (Framing)
- Rule of thirds
 - Nose room
 - Lead room
 - Head room
 - Crossing the line
 - Aspect ratio selection
 - Two shot
 - Three shot

- Standard 4** Shot selections
- Wide or long (LS)
 - Medium (MS)
 - Close up (CU)
 - Extreme close up (ECU)
 - Over-the-shoulder (O/S)
 - Cross shot (XS)

- Standard 5** Camera operation
- Focus
 - White balance
 - Zoom

- Standard 6** Camera Support
- Tripod
 - Monopod

STRAND 2 Students will be able to understand and demonstrate procedures for recording audio.

- Standard 1** Microphone
- Pickup patterns
 - Omnidirectional
 - Unidirectional
 - Bidirectional
 - Cardioid
 - Hypercardioid
 - Transducers
 - Dynamic

- Condenser (additional power source)
- Ribbon
- Microphone types
 - Lavalier
 - Handheld (stick)
 - Shotgun/Boom

- Standard 2** Ambience
- Definition of ambience
 - Natural sound (NATS)

STRAND 3 Students will be able to understand and demonstrate knowledge of lighting systems and how they are used.

- Standard 1** Principles of Lighting
- Triangle or three-point lighting
 - Key (Spot)
 - Back or Halo (Spot)
 - Fill (Flood)

- Standard 2** Lighting instruments and accessories
- Spot (direct)
 - Flood (diffused)
 - Barn doors
 - Reflector

- Standard 3** Lighting situations
- Base lighting
 - Chroma key
 - Silhouette
 - Falloff

STRAND 4 Students will be able to understand and demonstrate pre-production.

- Standard 1** Storytelling
- Audience
 - The three P's – People, Place, Predicament
 - Scriptwriting

- Standard 2** Storyboard

- Standard 3** Shot list

- Standard 4** Props and costumes

STRAND 5 Students will be able to understand and demonstrate production.

- Standard 1** Logging

- Standard 2** Editing
- Time code
 - Titles
 - Transitions
 - Countdowns
 - Sound tracks
 - Timeline
 - Jump cut

- Cut-to-the-beat

- Standard 3** Industry standards
- NTSC
 - PAL
 - High definition vs standard definition
 - Interlaced & Progressive
 - Aspect ratio
 - Frames per second (fps)

STRAND 6 Students will be able to understand and demonstrate the use of visual effects and graphics.

- Standard 1** Visual effects
- Chroma key
 - Animation

- Standard 2** Graphics
- Text
 - Fonts
 - Drop Shadows on text
 - Title Colors (High Contrast)
 - Title safe area
 - Lower Third

STRAND 7 Students will be able to understand and demonstrate knowledge of visual effects and graphics.

- Standard 1** Visual effects
- Chroma key
 - Picture in Picture (PIP)
 - Virtual Studio
 - Transitions

- Standard 2** Graphics
- Text
 - Fonts
 - Colors
 - Title safe area
 - Computer-generated design
 - Still images
 - Lower third

STRAND 8 Students will be able to understand and demonstrate knowledge of the function of various cables and connectors.

- Standard 1** Short-run video connections (F, RCA, HDMI)
- Standard 2** Long-run video connections (BNC)
- Standard 3** Connectors that can also be used for audio (RCA, USB, HDMI, BNC)
- Standard 4** Professional audio connectors (XLR)
- Standard 5** Other audio Connectors (1/4" plugs [stereo & mono], 1/8" mini plugs [stereo & mono])

STRAND 9 Students will be able to understand and practice copyright laws, ethics and legal issues as identified in United States Code Title 17 Chapter 1 Section 101.

Standard 1 Define copyright, ethics, and fair use.

Standard 2 Practice ethics and rules governing photojournalism.

- Fair use
- Time limitations
- Copying and distribution limitations

STRAND 10 Students will gain an understanding of Video Production as a profession and will develop professional skills for the workplace.

Standard 1 As a participating member of the SkillsUSA student organization, complete the SkillsUSA Level 1 Professional Development Program.

- Complete a self-assessment inventory and identify individual learning styles.
- Discover self-motivation techniques and establish short-term goals.
- Determine individual time-management skills.
- Define future occupations.
- Define awareness of cultural diversity and equity issues.
- Recognize the benefits of conducting a community service project.
- Demonstrate effective communication skills with others.
- Participate in a shadowing activity.
- Identify components of an employment portfolio.
- Demonstrate proficiency in program competencies.
- Explore what is ethical in the workplace or school.
- Master a working knowledge of SkillsUSA.
 - State the SkillsUSA motto.
 - State the SkillsUSA creed.
 - Learn the SkillsUSA colors.
 - Describe the official SkillsUSA dress.
 - Describe the procedure for becoming a SkillsUSA officer.

Standard 2 Display a professional attitude toward the instructor and peers.

* SkillsUSA PDP requirements - recommended

Skill Certificate Test Points by Strand

| Test Name | Test # | Number of Test Points by Strand | | | | | | | | | Total Points | Total Questions |
|--------------------|--------|---------------------------------|---|----|---|---|----|---|---|---|--------------|-----------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | |
| Video Production 1 | 592 | 12 | 7 | 12 | 5 | 1 | 12 | 1 | 6 | 1 | 57 | 48 |

Performance Objectives