Course Description
This course is designed to provide students with the advanced knowledge and skills related to the television broadcasting 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.

<table>
<thead>
<tr>
<th>Intended Grade Level</th>
<th>11-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Units of Credit</td>
<td>0.5</td>
</tr>
<tr>
<td>Core Code</td>
<td>40.01.00.00.010</td>
</tr>
<tr>
<td>Concurrent Enrollment Core Code</td>
<td>40.01.00.13.010</td>
</tr>
<tr>
<td>Prerequisite</td>
<td>TV Broadcasting 1</td>
</tr>
<tr>
<td>Skill Certification Test Number</td>
<td>591</td>
</tr>
<tr>
<td>Test Weight</td>
<td>0.5</td>
</tr>
<tr>
<td>License Type</td>
<td>CTE and/or Secondary Education 6-12</td>
</tr>
<tr>
<td>Required Endorsement(s)</td>
<td></td>
</tr>
<tr>
<td>Endorsement 1</td>
<td>Television Broadcasting</td>
</tr>
<tr>
<td>Endorsement 2</td>
<td>N/A</td>
</tr>
<tr>
<td>Endorsement 3</td>
<td>N/A</td>
</tr>
</tbody>
</table>
STRAND 1

Students will be able to demonstrate knowledge of the correct operation of the camera.

Standard 1
Identify the functions of the main parts of a camera, including:
- Image sensors
- Lens
- Body
- Viewfinder

Standard 2
Demonstrate use of advanced camera operations, including:
- Focus
- White balance, both indoors and outdoors
- Exposure involving the iris/aperture and shutter speed
- Recording settings
  - Format
  - Current camera resolutions (720, 1080, 4K, etc.)
  - Appropriate frame rates and their uses

Standard 3
Demonstrate proper use of camera supports, including:
- Tripod
- Monopod
- Reducing camera shake when handheld

Standard 4
Demonstrate effective shot composition (framing), including:
- Rule of thirds
- The difference between nose room and lead room
- Head room
- Two shot

Standard 5
Demonstrate effective use of various shot types, including:
- Wide or long (LS)
- Medium (MS)
- Close up (CU)

Standard 6
Demonstrate effective use of various camera angles, including:
- High angle
- Eye level
- Low angle
Standard 7
Demonstrate effective use of various camera movements, including:
- Pan
- Truck
- Tilt
- Pedestal
- Zoom
- Dolly
- Arc

Performance Skill
Demonstrate knowledge of the correct operation of the camera.
- Identify the functions of the main parts of a camera.
- Demonstrate use of advanced camera operations.
- Demonstrate proper use of camera supports.
- Demonstrate effective shot composition (framing).
- Demonstrate effective use of various shot types.
- Demonstrate effective use of various camera angles.
- Demonstrate effective use of various camera movements.

STRAND 2
Students will be able to understand and demonstrate proper use of audio systems.

Standard 1
Identify various types of microphones and filters and demonstrate appropriate use of each.
- Microphone types
  - Lavaliere
  - Handheld mic
  - Shotgun/Boom mic

Standard 2
Demonstrate effective editing of audio recordings.
- Set appropriate audio levels for different audio types
  - Dialogue
  - Sound effects
  - Music
  - Clipping
- Demonstrate effective use of a three-point lighting system and its components
- Demonstrate effective use of ambient sound
TELEVISION BROADCASTING 2

Performance Skill
Understand and demonstrate proper use of audio systems.
- Identify various types of microphones and filters and demonstrate appropriate use of each.
- Demonstrate effective editing of audio recordings.

STRAND 3
Students will demonstrate proper use of lighting systems.

Standard 1
Demonstrate understanding of a three-point lighting system and its components.
- Key light
- Fill light
- Back or halo light

Standard 2
Identify and demonstrate effective use of lighting instruments and accessories.
- Direct light
- Diffused light
- Barn doors
- Reflectors
- Diffusers (softbox, umbrella, etc.)
- Gels

Standard 3
Setup and use lighting appropriately for various situations.
- Chroma key lighting
- Background lighting

Performance Skill
Demonstrate proper use of lighting systems.
- Demonstrate understanding of a three-point lighting system and its components.
- Identify and demonstrate effective use of lighting instruments and accessories.
- Setup and use lighting appropriately for various situations.

STRAND 4
Students will demonstrate the proper use of broadcast production equipment and components.

Standard 1
Demonstrate advanced use of a live production switcher and identify its components.
- Preview row (Bus)
- Program row (Bus)
• Key row (Bus)
• Mix/effects (M/E)
• Fader bar

**Standard 2**
Demonstrate advanced use of an audio mixer (soundboard).
• Mic/line inputs
• Mic/line faders
• Pan
• Master fader
• VU meter

**Standard 3**
Demonstrate proper use of a teleprompter.

**Standard 4**
Identify various connectors.
• BNC
• HDMI
• Mini (1/8") jack
  • Stereo/mono
• 1/4” Jack
  • Stereo/Mono
• RCA
• USB
• XLR

**Performance Skill**
Demonstrate the proper use of broadcast production equipment and components.
• Demonstrate advanced use of a live production switcher and identify its components.
• Demonstrate advanced use of an audio mixer (soundboard).
• Demonstrate proper use of a teleprompter.
• Identify various connectors.

**STRAND 5**
Students will effectively perform the functions of the control room and studio personnel.

**Standard 1**
Perform various control room crew responsibilities.
• Producer
• Director
• Technical director
• Audio engineer
• Video playback
• Graphics
• Teleprompter

**Standard 2**
Perform various *studio* crew responsibilities.
  • Floor director
  • Camera operator
  • Talent

**Performance Skill**
Effectively perform the functions of the control room and studio personnel.
  • Perform various *control room* crew responsibilities.
  • Perform various *studio* crew responsibilities.

**STRAND 6**
*Students will demonstrate proper pre-production tasks.*

**Standard 1**
Participate in pre-production meetings.

**Standard 2**
Use effective communication skills when planning a production, including:
  • Purpose
  • Audience

**Standard 3**
Effectively create storyboards.

**Standard 4**
Effectively demonstrate proper script writing.

**Standard 5**
Properly use rundown for broadcast productions.
  • Blocks/timeline
  • Shot list (Camera number, position, shot type)
  • Bumper and Teasers

**Standard 6**
Studio preparation.

**Performance Skill**
Demonstrate proper pre-production tasks.
  • Participate in pre-production meetings.
  • Use effective communication skills when planning a production.
• Effectively create storyboards.
• Effectively demonstrate proper script writing.
• Properly use rundown for broadcast productions.
• Studio preparation.

STRAND 7
Students will demonstrate effective news gathering.

Standard 1
Create hard and soft news stories.

Standard 2
Demonstrate effective interview techniques.
  • Street interview
  • Sit-down interview

Standard 3
Develop effective new stories that include:
  • Interviews
  • Narration
  • B-roll
  • Lead-in/out

Performance Skill
Demonstrate effective news gathering.
  • Create hard and soft news stories.
  • Demonstrate effective interview techniques.
  • Develop effective new stories.

STRAND 8
Students will demonstrate proper post-production techniques.

Standard 1
Demonstrate appropriate file management and archiving processes.
  • Transferring
  • Organizing
  • Naming

Standard 2
Demonstrate effective editing workflows.
  • Preview media
    • Trim
• Rough cut
  • Cuts
  • Transitions
• Tighten sequence
• Filters/effects
  • Graphics
  • Keyframe animation
• Export

**Standard 3**
Demonstrate effective output of media.
• Use appropriate settings for desired output (i.e., web, mobile, movie screen, TV, etc.)
  • Codecs (h.264, ProRes, XAVC, etc.)
  • Containers (.MP4, .MOV, etc.)
  • Resolutions (720, 1080, 4K, etc.)
  • Frame per second

**Performance Skill**
Demonstrate proper post-production techniques.
• Demonstrate appropriate file management and archiving processes.
• Demonstrate effective editing workflows.
• Demonstrate effective output of media.

**STRAND 9**
**Students will demonstrate the use of visual effects and graphics.**

**Standard 1**
Demonstrate effective use of various visual effects, including:
• Chroma key
• Over-the-shoulder box
• Virtual studio
• Transitions

**Standard 2**
Demonstrate effective use of graphics, including:
• Lower thirds
• Text
  • Font styles
  • Colors
  • Title safe area
• Computer-generated design
• Still images
Performance Skill
Demonstrate the use of visual effects and graphics.
  • Demonstrate effective use of various visual effects.
  • Demonstrate effective use of graphics.

STRAIND 10
Students will produce multiple broadcasts.

Standard 1
Produce a broadcast that includes, but isn’t limited to the following:
  • Multiple cameras and/or switching between video content
  • Segments, news packages, and/or commercials/PSAs
  • Broadcast to an audience

Performance Skill
Produce multiple broadcasts.

STRAIND 11
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, public domain, fair use, creative commons, and ethics.

Standard 2
Practice ethics and rules governing photojournalism.
  • Fair use
  • Time limitations
  • Copying and distribution limitations

STRAIND 12
Students will understand the importance of career readiness skills as it relates to the workplace and outlined in the SkillsUSA Framework – Level 2.

Standard 1
Understand and demonstrate reliability.
  • Determine individual time management skills.
  • Explore what’s ethical in the workplace or school.
  • Demonstrate awareness of government.
  • Demonstrate awareness of professional organizations and trade unions.
Standard 2
Understand and demonstrate responsiveness.
• Define the customer.
• Recognize benefits of doing a community service project.
• Demonstrate social etiquette.
• Identify customer expectations.

Standard 3
Understand resiliency.
• Discover self-motivation techniques and establish short-term goals.
• Select characters of a positive image.
• Identify a mentor.

Standard 4
Understand and demonstrate workplace habits.
• Participate in a shadowing activity.
• Explore workplace ethics: codes of conduct.
• Recognize safety issues.
• Perform a skill demonstration.
• Exercise your right to know.

Standard 5
Understand and develop initiative.
• Develop personal financial skills.
• Develop a business plan.
• Investigate entrepreneurship opportunities.

Standard 6
Understand and demonstrate continuous improvement.
• Conduct a worker interview.
• Demonstrate evaluation skills.
• Examine ethics and values in the workplace.
• Develop a working relationship with a mentor.
• Construct a job search network.

Skill Certificate Test Points by Strand

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Test #</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>Total Points</th>
<th>Total Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Television Broadcasting 2</td>
<td>591</td>
<td>10</td>
<td>8</td>
<td>6</td>
<td>3</td>
<td>12</td>
<td>6</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>53</td>
<td>33</td>
</tr>
</tbody>
</table>