# Introduction to T.V. Production Unit 3: Capturing Professional Audio and DSLR Video

## Unit Focus

Students will learn the proper techniques to capture high quality, external microphone audio during production, and the concepts required to operate a Digital Single Reflex Camera (DSLR Camera). The PBA will have students imagine and create a video that conveys a metaphorical idea.

## Stage 1: Desired Results - Key Understandings

### Standard(s)

**Connecticut Goals and Standards**
*Technology Education (CTE)*

- Describe, plan the use of, and apply 3-point lighting, source light, white balance, scrims, and reflectors using the appropriate techniques. *TE.DV.D.14*
- Describe the various types of sound equipment and techniques used with handheld, lavaliere, shot gun, condenser, omni and directional methods. *TE.DV.D.15*
- Describe white balance, iris, aperture, auto and manual focus, audio settings, and levels in camera operations. *TE.DV.E.18*
- Edit and finalize images and video for rough cut, transitions, color correction, keying, and pacing with nonlinear software. *TE.DV.F.25*
- Edit audio for voice over, sound levels, music, and sound effects with application software. *TE.DV.F.26*

**ITEEA - Standards for Technological Literacy**
*Technological Literacy: K-12*

- Students will develop an understanding of the attributes of design. (8)
- Students will develop the abilities to use and maintain technological products and systems. (12)
- Students will develop an understanding of and be able to select and use information and communication technologies. (17)

**Madison Public Schools Profile of a Graduate**

- Idea Generation: Studying a problem, need or model (mentor text, political piece, documents, art work, etc.) to

### Transfer

*Students will be able to independently use their learning to...*
**T1** Communicate effectively based on purpose, task, and audience using appropriate vocabulary.
**T2** Explore and hone techniques, skills, methods, and processes to create a metaphor

### Meaning

#### Understanding(s)

*Students will understand that...*
**U1** Powerful messages are grounded in emotions and showcase the depth, significance, and/or complexity of the problem/topic.
**U2** Advanced video production requires a thorough attention to the complex technical and intellectual content details in taking a tangible idea and turning it into an intangible life message (metaphorical).

#### Essential Question(s)

*Students will keep considering...*
**Q1** What is the message I'm trying to communicate?
**Q2** How will the audience understand what I'm trying to say?
**Q3** How do I precisely capture a moment?

### Acquisition of Knowledge and Skill

#### Knowledge

*Students will know...*
**K1** Capturing Audio

- External Microphones
- Microphone Types: Shotgun, Dynamic, Lavalier
- Pickup Patterns
- Camera Audio Input Meters/Decibels
- Conversation Sequence Project

**K2** DSLR Camera Settings

- Focal Length
- White Balance

#### Skill(s)

*Students will be skilled at...*
**S1** Convey a complex message (Metaphor)
**S2** Production: Capture high quality, close proximity audio
**S3** Post Production: Utilize editing software to hone message
**S4** Combine audio and production techniques to enable audio overlapping.
**S5** Production: Manipulate the complex features of a DSLR camera in capturing quality video.

| Stage 1: Desired Results - Key Understandings | | |
|---|---|---|
| consider limitations and imagine new solutions/transformations. (POG.2.1)<br>• Product Creation: Effectively use a medium to communicate important information. (POG.3.2) | • Aperture<br>• Shutter Speed<br>• Frames Per Second<br>• ISO<br><br>**K3** Overlapping audio technique includes J edits, L edits and cutaways.<br>**K4** Representational Ideas vs literal ideas<br>**K5** "Green Light" Treatment Process<br>Present Ideas to a Small Group for Selection and Approval | |