Foundations of Audio and Video Technology 608M

Foundations of Audio and Video Technology 608M Credit: 0.5 **PBGR:** Computer Technology

Course Description: This introductory hands-on course is designed for students who have little or no experience in video/sound production. Students will learn the basics of image and sound creation necessary for subsequent courses. Topics include, camera and microphone operation, video and audio capture, camera supports, editing, adding foley and sound tracks, titling, effects, and color correction. Students will also learn how to compress and encode video for optimized current platforms.

Prerequisites: None

Learning Outcomes:

As a result of this course, the student will be able to:

- Plan a production from start to finish
- Set up and operate a camcorder, both handheld and on a tripod
- Set up and safely use lighting equipment in different configurations
- Set up and operate shotgun and lavalier microphones
- Edit video and sound using software
- Add titles and effect to a video production
- Edit and level sound, add a score
- Adjust and perform color correction on footage
- Compress, optimize, and output video

Supplies:

1. Computers and Internet
2. SD Cards
3. Portable hard Drives
4. Notebook

Expectations & Course
Student responsibilities:

- Meet all deadlines; read and view assigned text/films
- Post on discussion boards
- Submit assignments
- Communicate with the instructor if you have questions or concerns
- Back up your work*

  *Backing up your work: Broken hardware, lost hard drives or disorganized files are not excuses for missing assignments. It is your responsibility to keep track of your materials and to back up your files in the event your hard drive is damaged. You may use Google Drive to backup files.

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Grading:

Major:	Grading:	Assessments:
CA-70%	100-97 A+	1. Production assignments
	96-94 A	
LA-15%	93-90 A-	2. Written assignments
	89-87 B+	
QA-15%	86-84 B	• Includes discussion boards and reflection essays
	83-80 B-	
	79-77 C+	3. Final project
	76-74 C	
	73-70 C-	4. Quarterly Assessments
	69-66 D	
	< 66 F	

Unit 1: Introduction to Video and Audio Production

- **Course pre-test knowledge**

- **History of Video and Audio Production**

    - Mass Media, Early Video and Audio Uses, Roll of Video and Audio in today's society, Copyright Law and Privacy Law

- **QA 1-History of Visual and Audio Media-Slides Presentation**

- **Electronics**
    - Camera Basics, Cables and Storage Devices, Safety and Maintenance

- **Shot Composition**
    - Mediacollege.com
    - Attaching/Detaching Audio and Video from image
    - Transfer of Image

- ○ Lighting

- **1st Project: 5-10 shot video with Audio**

- **Intro to Postproduction**
  - ○ Final Cut
  - ○ Adobe Premiere
  - ○ Internet Based Video production sites
  - ○ Soundtrap
  - ○ Soundcloud
  - ○ Bandlab

- **2nd Project : Walking Video**

Unit 2 Audio Production

- **Audio Capturing and Editing**
  - ○ Microphone
  - ○ Mixers
  - ○ Drops
  - ○ Copyright Law
  - ○ Introduction to Podcasting

- **Project 3 Interview**

- ## Common Assessment Movie Review

Unit 3: Video Production and Transfer

- **Project 4 Video Tutorial**

- **Video Converting and File Sharing**
  - ○ **MP4**
  - ○ **MOV**
  - ○ **QT**
  - ○ **AVI**
  - ○ **AVCHD**

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- **Project 5-Poetry Interpretation video**

- **Project 6-Music Video**

- **Final Exam** (Assessment of course content)

- **Standards and Expectations** (Subject to change for specific assignments):

Common Core Standards

RH-7.7
Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.

WHST-6.6
6. Use technology, including the Internet, to produce and publish writing and to interact and collaborate with others.

ISTE STANDARDS

Creativity and Innovation
 Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. Students:

a.apply existing knowledge to generate new ideas, products, or processes.

Communication and Collaboration
  Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others. Students: interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media.
c.develop cultural understanding and global awareness by engaging with learners of other cultures.

3. Research and Information Fluency
        Students apply digital tools to gather, evaluate, and use information. Students:

c. evaluate and select information sources and digital tools based on the appropriateness to specific tasks.

Critical Thinking, Problem Solving, and Decision Making
 Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources. Students:

b. plan and manage activities to develop a solution or complete a project.

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Digital Citizenship

Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior. Students:

a. advocate and practice safe, legal, and responsible use of information and technology.
b. exhibit a positive attitude toward using technology that supports collaboration, learning, and productivity.

Technology Operations and Concepts

Students demonstrate a sound understanding of technology concepts, systems, and operations. Students:

a. understand and use technology systems.
b. select and use applications effectively and productively.

Cranston Academic Expectations (2019-2020)

Problem Solving and Critical Thinking Skills

All students will evidence the guiding principles of focus and coherence of these skills through the techniques of:

AESL-9   AESL-9 - AESL-9 (Technical/Engineering Design)

Communication Skills

All students will evidence a comprehension of complex literary and informational texts, appropriate academic vocabulary, and accurate grammar, through the techniques of:

2. Narrative Writing

3. Informational Writing

4. Speaking and Listening