



monarch

2018 - 2019 Curriculum Catalog
Career and Technical Education Series
A/V Technology and Film Careers

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A/V Technology and Film Careers Course Overview

This course discusses careers in audio/visual (AV) technology and film, and provides students with background about the required skills, education, equipment, and technology in this industry. Students will understand the collaborative team effort of many different professionals who make films, videos, audio, and TV programming. The course begins with an introduction to the history and development of AV technology and film, with subsequent units focusing on specific sectors of the industry and the stages for producing film and media. The concluding unit focuses on the finishing stages for exhibition, distribution, and reaching a market. In addition, the course will provide information about many different careers that are available to students who are interested in AV technology and film.

Objectives

- apply understanding of the technical and artistic elements of various careers
- analyze the importance of health, safety and environmental management systems, policies, and procedures common in arts, AV technology, and communications activities and facilities
- analyze the lifestyle implications and physical demands required in the arts, AV technology, and communications workplace
- evaluate the legal and ethical responsibilities required in the arts, AV technology, and communications workplace
- describe the career opportunities and means to achieve those opportunities in each of the arts, AV technology, and communications pathways.
- evaluate technological advancements and tools that are essential to occupations within the arts, AV technology, and communications career cluster.
- analyze the technical, artistic, critical thinking, and creative skills that are required to have successful careers in a competitive arts and communications environment

For topics in this course, it is helpful to students to be familiar with general concepts about the entertainment, broadcast, and information technology industries, as well as the basic skills for conducting research on websites.

If students are not familiar with these topics, it is important for them to familiarize themselves with online resources for audio, film, and technology concepts by visiting such sites as aes.org, or aicp.com. These websites will provide an introduction to audio production and filmmaking.

Unit 1: The History and Practices of A/V Technology and Film	
Assignments	
A/V Technology and Film Careers	1. Course Overview
	2. The History of Sound and Film
	3. The Development of the A/V Industries and Emergence of Corporations
	4. Project: Mini-Documentary on a Hollywood Studio
	5. Technological Advances in Film and Sound into Modern Era
	6. Project: Diagramming a Piece of Film
	7. Quiz 1: The History and Development of AV Technology and Film
	8. Basic Tools, Techniques, and Equipment for Production
	9. Basic Techniques for Synchronizing Audio and Video
	10. Project: Design a Multimedia Website for a Film Museum
	11. Policy and Regulations in Film, TV, and Media Creation
	12. Project: Short Video Report: Analyze a Commercial or TV Program
	13. Quiz 2: Principles and Practices in AV Technology and Film
	14. Special Project*
	15. Test
	16. Course Project Part 1: Developing a Film Treatment or Storyboard*
	17. Glossary and Credits

Unit 2: Equipment and Tools In A/V Technology and Film	
Assignments	
A/V Technology and Film Careers	1. Audio Production: Basic Tools and Techniques
	2. Fundamentals of Electronics, Acoustics, Sound, and Video
	3. Project: Audio Documentary: History of Analog and Digital Audio
	4. Tools, Technology, and Equipment to Produce in Audio and Video Formats
	5. Project: Illustrate an Audio Software User’s Guide
	6. Quiz 1: Audio Equipment and Technology
	7. Tools, Technology, and Equipment to Produce in Video and Film
	8. Basic Operation and Set up of Camera and Lighting
	9. Project: Short Video Tutorial: How to Light an Interview
	10. Systems and Techniques for Post-production
	11. Project: Report: Video/Film Editing Software Products
	12. Quiz 2: Video Equipment and Technology
	13. Special Project*
	14. Test
	15. Course Project Part 2: Writing a Pre-Production Plan Based on Your Storyboard or Treatment*
	16. Glossary and Credits

Unit 3: Pre-Production Planning and A/V & Film Technical Support	
Assignments	
A/V Technology and Film Careers	1. Pre-Planning for Production
	2. Scripts, Screenplays, and Treatments
	3. Project: Write a Script or Screenplay
	4. Pre-Planning: Tools, Technology, and Equipment
	5. Project: Write Pre-Production Checklists
	6. Quiz 1: The Importance of Pre-Production Planning
	7. Scripts, Screenplays, and Treatments and How They Inform Production
	8. Project: Design a Storyboard
	9. Equipment and Techniques for Video and Film
	10. Pre-Planning Techniques and Requirements for Post-Production
	11. Project: Write Instructions for Setting Bars and Tone
	12. Quiz 2: Pre-Production Planning: Equipment and Technology
	13. Special Project*
	14. Test
	15. Course Project Part 3: Production Plan*
	16. Glossary and Credits

Unit 4: Applying Equipment and Technology in the Production Stage	
Assignments	
A/V Technology and Film Careers	1. Production
	2. Project: Produce a Plan for a Production
	3. The Ways People Work Together During Production
	4. Technical Support Functions and Visual Technical Staff During Production
	5. Project: Develop a Gaffer Kit
	6. Quiz 1: Performing Tasks and Applying Skills During Production
	7. The Role and Function of the Management Team and Production Tasks
	8. Camera, Sound, and Lighting, and Techniques and Process
	9. Project: Make a Multimedia Presentation
	10. Technicians and Support Roles During Production
	11. Project: Make a How-To Video or Instruction Guide
	12. Quiz 2: Video Equipment and Technology
	13. Special Project*
	14. Test
	15. Course Project Part 4: Post-Production Plan*
	16. Glossary and Credits

Unit 5: The Post-Production Phase of A/V Technology and Film		
Assignments		
A/V Technology and Film Careers	1. Post-production	9. Sound Editing
	2. Post-Production Teams: Editors and Others Working Together	10. Finishing Phases for Exhibition and Distribution
	3. Project: Produce a Tutorial to Identify the Parts an Editor's Program Timeline	11. Project: Create a Video or Report about Color Grading
	4. Applying High-Level Skills Using Equipment in Post-production	12. Quiz 2: Post-Production Equipment and Technology
	5. Project: Write a Report about Royalty-Free Music Options for Post-production	13. Special Project*
	6. Quiz 1: The Post-Production Process	14. Test
	7. Video and Film Editing	15. Course Project Part 5: Produce the Short Film, Video, or Multimedia Presentation*
	8. Project: Create a Workflow and Organizational System for an Editing Session	16. Glossary and Credits

Unit 6: Course Project, Review, and Exam		
Assignments		
AVTFC	1. Course Project Part 6: Describing Plans for Exhibition or Distribution*	2. Review
		3. Exam

(*) Indicates alternative assignment