

Options EHS Introduction to Careers in Arts, A/V Technology and Communications 2020 **Scope and Sequence**

Unit Lesson

Objectives

AUDIO/VIDEO TECHNOLOGY AND FILM

A/V Technology – Through the Years

Describe the impact of changing technology on the audio/video and film industries.

Discuss the evolution of audio/video production.

Identify pioneers in film and sound.

Project: A Moment in Film or Audio History

A/V Technology at Work

Describe the work of A/V technician.

Discuss A/V technician positions.

Compare educational programs for A/V technician careers.

Identify work environments and types of equipment used by A/V technicians.

Explain research methods that may be beneficial in career and educational pathway selection.

Project: Research Careers in Your Dream Field

A/V Technology – Careers and Education

Define A/V technician.

Explain the role of equipment and the role of interpersonal teamwork.

Discuss a range of careers as an A/V tech.

Identify salary and work environments for careers.

Compare certification programs, AA and BA degrees.

Unit	Lesson	Objectives
	Careers in Film: Development and Pre-Production	<p>Describe the evolution of film and the impact of digital technology on today's films.</p> <p>Describe the five phases of film production.</p> <p>Describe the responsibilities of directors, including knowledge of story structure, script analysis, the relationship to the production team, and the responsibilities of pre-production crew members.</p> <p>Analyze various development and pre-production careers and their job descriptions.</p>
	Project: Screenwriting 101	
	Careers in Film: The Production Phase	<p>Describe how digital technology is impacting film production and filmmaking.</p> <p>Demonstrate knowledge of the director's role and creative roles in film production.</p> <p>Discuss key positions in film production and explain the duties and responsibilities of each position.</p> <p>Demonstrate technical skills and the use of various equipment and tools used in film production.</p>
	Careers in Film: Post-Production	<p>Describe the significance of digital technology, high-definition production and the required editing equipment.</p> <p>Describe skills required for editing.</p> <p>Explore film careers in post-production.</p> <p>Apply knowledge of post-production on a film project.</p>
	Project: Filmmaking: Then and Now	
	Test	

PERFORMING ARTS

	Overview of Production Managers in
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Unit	Lesson	Objectives
	the Performing Arts	<p>Compare and contrast the responsibilities and requirements of production managers in dance, music, and theater.</p> <p>Identify one or more successful paths to becoming a production manager.</p>
	Playwrights, Screenwriters and Directors	<p>Compare and contrast the responsibilities and requirements of playwrights, screenwriters, and directors.</p> <p>Outline one or more successful paths to becoming a playwright, screenwriter, or director.</p>
	Designers: Set, Costume, Lighting and Sound	<p>Contrast the responsibilities and requirements of set, costume, sound, and lighting designers and other stage crew jobs within the performing arts.</p> <p>Outline one or more successful paths to set, costume, sound, and lighting designer careers within the performing arts.</p>
	Test	
VISUAL ARTS		
	Principles of Design and Motion in Visual Arts	<p>Define principles of design and motion.</p> <p>Discuss interaction of design principles.</p> <p>Identify examples of painting styles and paintings.</p> <p>Explain motion in still and moving pictures and its principles in animation.</p> <p>Identify skills and abilities developed in art history courses.</p>
	Project: Analyze a Work of Art	

Unit Lesson

Objectives

The Art Director

Define art director as a job and career.

Discuss workplace challenges for art directors.

Examine successful ad campaigns.

Identify roles of art and commerce for art directors.

Project: And the Art Direction Award Goes to...

Being a Fine Artist

Explore the idea of fine artist as a professional title.

Describe types of fine artists and their work environments.

Discuss income generation for fine artists.

Give examples of famous fine artists and qualities they have needed to cultivate.

Contrast expectations and outcomes in the field.

Multimedia Artists in the Workplace

Identify multimedia artists as visual artists.

Describe projects multimedia artists create.

Analyze ways technology is used in art projects.

Compare work environments for multimedia artists.

Summarize types of jobs multimedia artists hold.

Project: Your Dream Job as a Multimedia Artist

Keeping Up with Technology

Unit Lesson

Objectives

Compare digital art technology past and present.

Describe multimedia professionals' computer turnover.

Identify advancements in technology developed for multimedia art.

Use examples from film technique and computer design.

Project: The Latest Thing in Digital Art
Technology

Working Alone, in Collaboration, and
in Teams

Identify ways multimedia artists collaborate and give examples.

Describe solo artists' work and work environments.

Summarize types of work teams of CG artists.

Analyze creative control and ownership of artwork.

Discuss legal and ethical issues of art production.

Test

TELECOMMUNICATIONS SYSTEMS

Regulations in the
Telecommunications Industry

Describe the basic elements of telecommunications systems.

Provide a brief overview of telecommunications from telegraph to WiFi.

Analyze the influence of user demand on technology development and vice versa.

Compare issues requiring regulation and deregulation.

Evaluate arguments for Open Internet and Net Neutrality.

Project: Web Security Now and in the

Unit	Lesson	Objectives
	Future	
	Telecommunications Timeline from Telephone to Videoconference	<p>Define telecommunications terminology.</p> <p>Differentiate between analog and digital communications.</p> <p>Differentiate between voice and data communications.</p> <p>Explain the primary aspects of communication theory and describe concepts relating to this theory.</p> <p>Summarize and describe the Open Systems Interconnection model (OSI) and transmission media which relate to communication theory.</p>
	Telecommunications Transmission Methods	<p>Explain telecommunications terminology.</p> <p>Compare transmission media.</p> <p>Analyze pros and cons of wiring and wireless technologies.</p> <p>Summarize wireless transmission methods and uses.</p> <p>Describe trends in telecom services and the impact of cloud technology on the industry.</p>
	Project: Explain the Cloud to Your Mom	
	The Changing Nature of Telecommunications Technology	<p>Summarize the changing nature of the telecom industry.</p> <p>Analyze specific innovations in telecommunications over time.</p> <p>Describe influences on research and development, and on supply and demand.</p> <p>Compare methods of transmission and equipment from telegraph to smartphone.</p>

Unit Lesson

Objectives

Discuss how telecom technologies affect global communication.

Project: Future Telecom Trends

Telecommunication Careers

Examine career opportunities in the field of telecommunications.

Analyze the responsibilities of the workers in the field.

Describe the nature and range of the work involved in maintaining a telecommunications network.

Evaluate hottest telecom tech jobs for the future.

Compare educational pathways and training options.

Project: Choose a Work Environment,
Find a Job

Training and Certification in
Telecommunications Careers

Analyze educational pathways, degree types, programs, and schools for telecom jobs.

Compare entry level requirements to advanced certifications.

Evaluate fastest job growth and certifications required.

Describe basic job responsibilities and skills for telecom categories.

Summarize aspects of telecommunications devices including design, functions, and components.

Test

COURSE PROJECT, REVIEW, AND EXAM

Review

Exam