



# ENLIGHTIUM ACADEMY

Ignitia™ Career and Technical Education  
Electives

A/V Technology and Film Careers

Enlightium Academy invites you to open the door to career and college readiness with Career and Technical Education (CTE) courses from Alpha Omega Publications - Ignitia™.

These rigorous, hands-on courses for grades 7-12 promote critical thinking, emphasize problem solving, and encourage students to take responsibility for their own learning. With 24 CTE courses divided into six clusters, these courses put students on practical paths to post-graduate success.

Should you have any questions about the curriculum, please contact [support@enlightiumacademy.com](mailto:support@enlightiumacademy.com) or call Enlightium Academy Customer Support at (866) 488-4818 ext. 2017.

If you have questions about technical support or product configuration, please see the information below for Alpha Omega Publications.

### **Alpha Omega Publications Technical Support**

Alpha Omega Publications' technical support is Ignitia™'s full-service technical support system. We exist to promote and preserve our customers' satisfaction. Our services include:

- Technical Support
- Product Configuration and Update Management

Please use the following information to contact Alpha Omega Publications' technical support:

**Online:**

Access our helpful Technical Support website simply by clicking on the life preserver located in the upper-right corner of any screen in our program!

**Telephone:**

Toll Free: 1-877-251-6662  
Monday –Friday 7 a.m. to 5 p.m. (CT)

## 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](http://aes.org), or [aicp.com](http://aicp.com). These websites will provide an introduction to audio production and filmmaking.

**UNIT 1: THE HISTORY AND PRACTICES OF AV TECHNOLOGY AND FILM**

**Assignment Titles**

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

**UNIT 2: EQUIPMENT AND TOOLS IN A/V TECHNOLOGY AND FILM**

**Assignment Titles**

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

**UNIT 3: PRE-PRODUCTION PLANNING AND A/V & FILM TECHNICAL SUPPORT**

**Assignment Titles**

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

**UNIT 4: APPLYING EQUIPMENT AND TECHNOLOGY IN THE PRODUCTION STAGE**

**Assignment Titles**

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

UNIT 5: THE POST-PRODUCTION PHASE OF AV TECHNOLOGY AND FILM	
AV TECHNOLOGY AND FILM CAREERS	<b>Assignment Titles</b>
	1. Post-production
	2. Post-Production Teams: Editors and Others Working Together
	3. Project: Produce a Tutorial to Identify the Parts an Editor's Program Timeline
	4. Applying High-Level Skills Using Equipment in Post-production
	5. Project: Write a Report about Royalty-Free Music Options for Post-production
	6. Quiz 1: The Post-Production Process
	7. Video and Film Editing
8. Project: Create a Workflow and Organizational System for an Editing Session	
9. Sound Editing	
10. Finishing Phases for Exhibition and Distribution	
11. Project: Create a Video or Report about Color Grading	
12. Quiz 2: Post-Production Equipment and Technology	
13. Project: Special Project*	
14. Test	
15. Course Project Part 5: Produce the Short Film, Video, or Multimedia Presentation*	
16. Glossary and Credits	

UNIT 6: COURSE PROJECT, REVIEW, AND EXAM	
AV TECHNOLOGY AND FILM CAREERS	<b>Assignment Titles</b>
	1. Course Project Part 6: Describing Plans for Exhibition or Distribution*
	2. Review
	3. Exam

(\*) Indicates alternate assignment