Florida Department of Education
Curriculum Framework

Program Title: Television Production Technology
Program Type: Career Preparatory
Career Cluster: Arts, A/V Technology and Communication

Secondary – Career Preparatory	
Program Number	8201500
CIP Number	0610020217
Grade Level	9-12
Standard Length	8 credits
Teacher Certification	Refer to the **Program Structure** section.
CTSO	SkillsUSA
SOC Codes (all applicable)	27-4032 – Film and Video Editors 27-4031 – Camera Operators, Television, Video, and Motion Picture
CTE Program Resources	http://www.fldoe.org/academics/career-adult-edu/career-tech-edu/program-resources.stml

Purpose

The purpose of this program is to prepare students for initial employment as television production operators, television broadcast technicians, camera operators, other professional/para-professional technicians, video recording engineers, and audio recording engineers.

This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Arts, A/V Technology and Communication career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the Arts, A/V Technology and Communication career cluster.

The content includes, but is not limited to, communication skills, leadership skills, human relations and employability skills, safe and efficient work practices, and preparation to assume responsibility for the television production studio activities (e.g., scriptwriting, lighting, shooting and directing, electronic news gathering, and field production).

Additional Information relevant to this Career and Technical Education (CTE) program is provided at the end of this document.

Program Structure

This program is a planned sequence of instruction consisting of eight (8) credits.

To teach the courses listed below, instructors must hold at least one of the teacher certifications indicated for that course.

The following table illustrates the secondary program structure:

Course Number	Course Title	Teacher Certification	Length	SOC Code	Level	Graduation Requirement
8201510	Television Production Technology 1	BUS ED 1 @2 @4 TEC ED 1 @ 2 ENG&TEC ED1@2 TV PRO TEC @ 7 7G	1 credit	27-4031	2	PA
8201520	Television Production Technology 2		1 credit	27-4031	2	PA
8201530	Television Production Technology 3		1 credit	27-4031	3	
8201540	Television Production Technology 4		1 credit	27-4031	3	
8201550	Television Production Technology 5		1 credit	27-4031	3	PA
8201560	Television Production Technology 6		1 credit	27-4031	3	PA
8201570	Television Production Technology 7		1 credit	27-4032	3	PA
8201580	Television Production Technology 8		1 credit	27-4032	3	PA

(Graduation Requirement Abbreviations- EQ= Equally Rigorous Science, PA= Practical Arts, EC= Economics)

Common Career Technical Core – Career Ready Practices

Career Ready Practices describe the career-ready skills that educators should seek to develop in their students. These practices are not exclusive to a Career Pathway, program of study, discipline or level of education. Career Ready Practices should be taught and reinforced in all career exploration and preparation programs with increasingly higher levels of complexity and expectation as a student advances through a program of study.

1. Act as a responsible and contributing citizen and employee.

2. Apply appropriate academic and technical skills.

3. Attend to personal health and financial well-being.

4. Communicate clearly, effectively and with reason.

5. Consider the environmental, social and economic impacts of decisions.

6. Demonstrate creativity and innovation.

7. Employ valid and reliable research strategies.

8. Utilize critical thinking to make sense of problems and persevere in solving them.

9. Model integrity, ethical leadership and effective management.

10. Plan education and career path aligned to personal goals.

11. Use technology to enhance productivity.

12. Work productively in teams while using cultural/global competence.

Standards

After successfully completing this program, the student will be able to perform the following:

Television Production Technology 1
01.0   Conduct online research for television production.
02.0   Interpret scripts for television production.
03.0   Demonstrate understanding of basic industry terminology and acronyms.
04.0   Apply knowledge of the television production technology program procedures.
05.0   Collaborate with others as an effective member of a television production team.
06.0   Use basic television production equipment.
07.0   Identify lighting needs for a planned production.
08.0   Perform basic audio and video recording operations.
09.0   Operate an editing system.

Television Production Technology 2
10.0   Write a broadcast style script.
11.0   Stage a set as directed for television production.
12.0   Perform lighting activities for a planned production.
13.0   Use basic equipment in a television production studio.
14.0   Operate television studio audio control systems.
15.0   Perform character generation (CG).
16.0   Operate editing software.

Television Production Technology 3
17.0   Utilize the Internet to gather data for a planned production.
18.0   Demonstrate industry accepted skills for studio production.
19.0   Assemble a lighting set up using modifiers (E.g. flags, reflectors, diffusers or artificial lights).
20.0   Demonstrate correct use of equipment used in television production.
21.0   Perform intermediate digital audio and video recording and editing operations.

Television Production Technology 4
22.0   Function as a member of a production team.
23.0   Select special effects lighting for a planned production.
24.0   Create a variety of television programming.

Television Production Technology 5
25.0   Research and select one or more areas of television production for specialization.
26.0   Perform advanced audio and video recording and editing operations in a studio situation.

27.0   Create a television program.
28.0   Demonstrate an independent level of proficiency in the selected area of specialization.

Television Production Technology 6

29.0   Demonstrate advanced scriptwriting techniques.
30.0   Apply production skills by producing a program.
31.0   Perform advanced digital audio and video recording and editing operations.

Television Production Technology 7
32.0   Perform basic maintenance for lighting instruments.
33.0   Perform Electronic News Gathering (ENG) and Electronic Field Production (EFP) equipment functions.

Television Production Technology 8

34.0   Translate written script into a full television production.
35.0   Create and maintain a portfolio with embedded production media.
36.0   Function at an independent level with proficiency in one area of television production.
37.0   Research a specific career in television.

Florida Department of Education
Student Performance Standards

Course Title: **Television Production Technology 1**
Course Number: **8201510**
Course Credit: **1**

Course Description:

This course covers competencies in safety, lighting tasks, the use of basic television production equipment, scriptwriting, collaboration, research, and audio and video recording and editing.

CTE Standards and Benchmarks
01.0 Conduct online research for television production. The student will be able to:
01.01 Complete an Internet search for viable information used in scripting a project.
01.02 Identify valid websites for information retrieval.
02.0 Interpret scripts for television production. The student will be able to:
02.01 Identify a script by format, function and utilization.
02.02 Define the terminology used in script writing.
02.03 Specify the steps leading to a script.
02.04 Write a script in an appropriate format.
03.0 Demonstrate understanding of basic industry terminology and acronyms. The student will be able to:
03.01 Define trade terminology, including the four steps of the production process.
03.02 Define trade abbreviations and acronyms as appropriate.
04.0 Apply knowledge of the television production technology program procedures. The student will be able to:
04.01 Follow classroom procedures.
04.02 State and apply general safety rules for operation of equipment.

CTE Standards and Benchmarks		
	04.03	Transport equipment safely and securely.
	04.04	Store equipment in appropriate locations.
05.0	Collaborate with others as an effective member of a television production team. The student will be able to:	
	05.01	Understand the job functions of a television production team.
	05.02	Give and follow directions.
	05.03	Function as a member of a production team.
	05.04	Set and adhere to production deadlines established by others.
	05.05	Critique and analyze a production.
	05.06	Analyze lighting needs for a production.
	05.07	Set-up appropriate lighting for a production.
06.0	Use basic television production equipment. The student will be able to:	
	06.01	Load, cue, transfer, record and play assets from various media.
	06.02	Set up, turn on and operate a video camera.
	06.03	Set up, turn on, and operate audio production equipment.
	06.04	Identify and demonstrate picture composition principles (e.g. rule of thirds, leading lines, etc.).
	06.05	Identify types of video and audio connectors.
	06.06	Identify, select and demonstrate use of a microphone for situation (pick-up pattern, directionality, etc.).
	06.07	Identify the qualities of a good audio track.
	06.08	Identify and select appropriate equipment for a specific production.
	06.09	Select and place microphones for maximum effect.
	06.10	Describe set up and operate video and audio input and output devices.

CTE Standards and Benchmarks	
06.11	Describe function of video and audio monitors.
07.0	Identify lighting needs for a planned production. The student will be able to:
07.01	Describe types of lighting fixtures.
07.02	Identify parts of lighting fixtures and accessories.
07.03	Analyze lighting needs for a production.
07.04	Set-up appropriate lighting for a production.
08.0	Perform basic audio and video recording operations. The student will be able to:
08.01	Describe operational parts of a video recording device.
08.02	Operate video recording devices to record and playback.
08.03	Perform studio editing procedures for both audio and video production needs (e.g. switcher, mixer, etc.).
08.04	Transfer and log video.
09.0	Operate an editing system. The student will be able to:
09.01	Prepare graphics for production.
09.02	Combine elements into a program.
09.03	Select the best source material, such as voiceover (VO), sound on tape (SOT), and B-roll, to achieve program goals.
09.04	Control audio mix and effects.
09.05	Edit a shot sequence or story for continuity.

Florida Department of Education
Student Performance Standards

Course Title: **Television Production Technology 2**
Course Number: **8201520**
Course Credit: **1**

Course Description:

Students explore script writing, audio and video recording and editing, set staging, and character generation.

CTE Standards and Benchmarks
10.0   Write a broadcast style script. The student will be able to:
10.01   Plan and produce a storyboard.
10.02   Specify steps leading to broadcast scripts.
10.03   Write a broadcast script including location information, camera moves and dialogue.
11.0   Stage a set as directed for television production. The student will be able to:
11.01   Dress a set for a television production.
11.02   Inspect for and correct safety concerns.
11.03   Sketch a set plan.
12.0   Perform lighting activities for a planned production. The student will be able to:
12.01   Describe functions of the master lighting panel and dimmer board.
12.02   Draw and label a diagram for a lighting plot.
12.03   Assemble appropriate lighting using light modifiers (e.g. reflectors, flags, or artificial lighting).
13.0   Use basic equipment in a television production studio. The student will be able to:
13.01   Determine appropriate audio and video cables for use.

	CTE Standards and Benchmarks
	13.02 Troubleshoot a bad cable connection.
	13.03 Set up video and audio monitors for production.
	13.04 Describe function of a Camera Control Unit (CCU).
	13.05 Describe parts of an audio mixing console.
	13.06 Operate a teleprompter.
	13.07 Operate an audio mixing console.
	13.08 Operate video switcher.
	13.09 Direct participants in production of a program.
	13.10 Perform on-camera.
14.0	Operate television studio audio control systems. The student will be able to:
	14.01 Identify and select microphones for production.
	14.02 Place microphones for maximum effect.
	14.03 Describe parts of sound recording and playback devices.
	14.04 Operate sound recording and playback devices.
	14.05 Describe parts of an audio mixing console.
	14.06 Operate an audio mixing console.
15.0	Perform character generation (CG). The student will be able to:
	15.01 Create television graphics using industry standard equipment.
	15.02 Understand television graphics safe zone and color design.
	15.03 Create CGs adhering to the rule of thirds.
16.0	Operate editing software. The student will be able to:

CTE Standards and Benchmarks
16.01   Generate graphics using editing software.
16.02   Combine media elements into a final product.
16.03   Select the best source material to achieve program goals.
16.04   Edit a sequence for continuity.

Florida Department of Education
Student Performance Standards

Course Title: **Television Production Technology 3**
Course Number: **8201530**
Course Credit: **1**

Course Description:

Students will perform lighting tasks, record and edit audio and video, and participate in all aspects of the television production process – from the initial stages of program creation to final editing.

CTE Standards and Benchmarks
17.0   Utilize the Internet to gather data for a planned production. The student will be able to:
17.01   Use the Internet to research specific information on a production topic as assigned.
17.02   Derive online information for use in graphs and charts in a production.
18.0   Demonstrate industry accepted skills for studio and remote production. The student will be able to:
18.01   Demonstrate skills in selecting production topics.
18.02   Determine quality of production topics.
18.03   Operate television studio equipment.
18.04   Adhere to production deadlines.
19.0   Assemble a lighting set up using modifiers (E.g. flags, reflectors, diffusers or artificial lights). The student will be able to:
19.01   Create shadow to add depth and dimension using appropriate modifiers.
20.0   Demonstrate correct use of equipment used in television production. The student will be able to:
20.01   Properly manage program inventory.
20.02   Demonstrate basic equipment maintenance and management.
21.0   Perform intermediate digital audio and video recording and editing operations. The student will be able to:

CTE Standards and Benchmarks	
21.01	Identify and describe different video recording devices.
21.02	Control audio mix and effects.
21.03	Export a file appropriately for a variety of distribution methods.
21.04	Utilize keyframes in editing.
21.05	Perform time code calculations.

Florida Department of Education
Student Performance Standards

Course Title: **Television Production Technology 4**
Course Number: **8201540**
Course Credit: **1**

Course Description:

Students will perform advanced lighting tasks for television productions, demonstrate the mastery of competencies related to audio and video recording and editing operations, interpret scripts for television productions, and collaborate with others as part of the television production team.

CTE Standards and Benchmarks
22.0 Function as a member of a production team. The student will be able to:
22.01 List the job functions of the television production team.
22.02 Operate studio equipment (e.g. CCU, switcher, audio).
22.03 Operate a CCU to correct video signals from studio cameras.
22.04 Execute the four steps of the production process.
22.05 Give and follow directions.
22.06 Set and adhere to production deadlines.
22.07 Receive and respond to client comments and feedback.
23.0 Select special effects lighting for a planned production. The student will be able to:
23.01 Use lighting instruments to create the mood for a production.
23.02 Use appropriate lighting accessories (gels, reflectors, etc.) to enhance a production.
24.0 Create a variety of television programming. The student will be able to:
24.01 Write, produce, direct and edit news programs.
24.02 Write, produce, direct and edit editorials.

24.03	Write, produce, direct and edit feature programs.
24.04	Write, produce, direct and edit interview programs.
24.05	Write, produce, direct and edit commercials.

Florida Department of Education
Student Performance Standards

Course Title: **Television Production Technology 5**
Course Number: **8201550**
Course Credit: **1**

Course Description:

This course requires students to perform advanced audio and video recording and editing operations; students will collaborate with other members of the production team to create a television program.

CTE Standards and Benchmarks
25.0 Research and select one or more areas of television production for specialization. The student will be able to:
25.01 Survey and select area(s) for specialization in television production.
25.02 Perform research on position availability, training requirements and post-secondary institutes with programs of study or emphasis in the selected specialization.
26.0 Perform advanced audio and video recording and editing operations in a studio situation. The student will be able to:
26.01 Set up digital audio and/or digital video editing equipment and or software.
26.02 Set up digital audio and/or digital video recording and playback devices.
27.0 Create a television program. The student will be able to:
27.01 Plan a television program.
27.02 Write a television program.
27.03 Direct a television program.
27.04 Edit a television program.
27.05 Record a television program.
28.0 Demonstrate an independent level of proficiency in the selected area of specialization. The student will be able to:
28.01 Demonstrate engagement in all aspects of the production process and assist peers, as needed.

28.02	Identify deficient areas of knowledge/skill level and make plan for improvement.
28.03	Set personal goals for achievement in Television Production.
28.04	Track skill acquisition and progress toward personal goals.

Florida Department of Education
Student Performance Standards

Course Title: **Television Production Technology 6**
Course Number: **8201560**
Course Credit: **1**

Course Description:

Students demonstrate competency in advanced scriptwriting, program production, and advanced digital audio and video recording and editing operations.

CTE Standards and Benchmarks
29.0 Demonstrate advanced scriptwriting techniques. The student will be able to:
29.01 Write a broadcast script for a program with a minimum 10 minute program length.
29.02 Use the correct script format for the program selected (documentary, drama, infomercial, etc.).
30.0 Apply production skills by producing a program. The student will be able to:
30.01 Plan a television program with a minimum 10 minute program length.
30.02 Write a television program with a minimum 10 minute program length.
30.03 Direct a television program with a minimum 10 minute program length.
30.04 Record a television program with a minimum 10 minute program length.
30.05 Edit a television program with a minimum 10 minute program length.
30.06 Distribute the television program with the proper settings for the medium.
31.0 Perform advanced digital audio and video recording and editing operations. The student will be able to:
31.01 Organize assets in digital format.
31.02 Set-up video input and output devices.
31.03 Perform insert edits in a non-linear format.

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Student Performance Standards

Course Title: **Television Production Technology 7**
Course Number: **8201570**
Course Credit: **1**

Course Description:

Students will demonstrate skills related to Electronic News Gathering (ENG) and Electronic Field Production (EFP) equipment functions. The student will select an area of television production for specialization.

CTE Standards and Benchmarks
32.0   Perform basic maintenance for lighting instruments. The student will be able to:
32.01   Identify the correct bulb for a light fixture.
32.02   Replace a bulb in a fixture.
32.03   Use the appropriate gear and/or techniques to ensure that the bulbs are not exposed to human contact (avoid oils on light surfaces).
33.0   Perform Electronic News Gathering (ENG) and Electronic Field Production (EFP) equipment functions. The student will be able to:
33.01   List and describe ENG and EFP equipment components.
33.02   Set up equipment for field production.
33.03   Operate equipment during field production segments.

Florida Department of Education
Student Performance Standards

Course Title: **Television Production Technology 8**
Course Number: **8201580**
Course Credit: **1**

Course Description:

Students will plan, produce, and direct a complete television production/program.

CTE Standards and Benchmarks
34.0 Translate written script into a full television production. The student will be able to:
34.01 Produce a television program from a written script.
35.0 Create and maintain a portfolio with embedded production media. The student will be able to:
35.01 Curate and select work that demonstrates the skills needed in the industry.
35.02 Select a distribution method that allows access to your work.
36.0 Function at an independent level with proficiency in one area of television production. The student will be able to:
36.01 Survey and select an area of specialization in television production.
36.02 Perform at an independent level of proficiency in area of specialization.
36.03 Create useable end products in the area of specialization.
36.04 Create training materials in the area of specialization.
36.05 Demonstrate the correct application and use of the selected area of specialization.
37.0 Research a specific career in television. The student will be able to:
37.01 Perform career research on a specific area of television production.
37.02 Write a report on the specific career; include salary, job prospects, and educational requirements.
37.03 Prepare a résumé for employment in the specific career selected.

CTE Standards and Benchmarks

37.04   Demonstrate a high level of proficiency in the specific career area selected.

Additional Information

Laboratory Activities

Laboratory investigations that include scientific inquiry, research, measurement, problem solving, emerging technologies, tools and equipment, as well as, experimental, quality, and safety procedures are an integral part of this career and technical program/course. Laboratory investigations benefit all students by developing an understanding of the complexity and ambiguity of empirical work, as well as the skills required to manage, operate, calibrate and troubleshoot equipment/tools used to make observations. Students understand measurement error; and have the skills to aggregate, interpret, and present the resulting data. Equipment and supplies should be provided to enhance hands-on experiences for students.

Florida Standards for English Language Development (ELD)
English language learners communicate for social and instructional purposes within the school setting. ELD.K12.ELL.SI.1

English Language Development (ELD) Standards Special Notes:
Teachers are required to provide listening, speaking, reading and writing instruction that allows English language learners (ELL) to communicate for social and instructional purposes within the school setting. For the given level of English language proficiency and with visual, graphic, or interactive support, students will interact with grade level words, expressions, sentences and discourse to process or produce language necessary for academic success. The ELD standard should specify a relevant content area concept or topic of study chosen by curriculum developers and teachers which maximizes an ELL's need for communication and social skills. To access an ELL supporting document which delineates performance definitions and descriptors, please click on the following link: http://www.cpalms.org/uploads/docs/standards/eld/SI.pdf.
For additional information on the development and implementation of the ELD standards, please contact the Bureau of Student Achievement through Language Acquisition at sala@fldoe.org .

Career and Technical Student Organization (CTSO)

SkillsUSA is the intercurricular career and technical student organization(s) providing leadership training and reinforcing specific career and technical skills. Career and Technical Student Organizations provide activities for students as an integral part of the instruction offered.

Cooperative Training – OJT

On-the-job training is appropriate but not required for this program. Whenever offered, the rules, guidelines, and requirements specified in the OJT framework apply.

Accommodations

Federal and state legislation requires the provision of accommodations for students with disabilities as identified on the secondary student's Individual Educational Plan (IEP) or 504 plan or postsecondary student's accommodations' plan to meet individual needs and ensure equal access. Accommodations change the way the student is instructed. Students with disabilities may need accommodations in such areas as instructional

methods and materials, assignments and assessments, time demands and schedules, learning environment, assistive technology and special communication systems. Documentation of the accommodations requested and provided should be maintained in a confidential file.

In addition to accommodations, some secondary students with disabilities (students with an IEP served in Exceptional Student Education (ESE)) will need modifications to meet their needs. Modifications change the outcomes or what the student is expected to learn, e.g., modifying the curriculum of a secondary career and technical education course. Note: postsecondary curriculum and regulated secondary programs cannot be modified.

Some secondary students with disabilities (ESE) may need additional time (i.e., longer than the regular school year), to master the student performance standards associated with a regular course or a modified course. If needed, a student may enroll in the same career and technical course more than once. Documentation should be included in the IEP that clearly indicates that it is anticipated that the student may need an additional year to complete a Career and Technical Education (CTE) course. The student should work on different competencies and new applications of competencies each year toward completion of the CTE course. After achieving the competencies identified for the year, the student earns credit for the course. It is important to ensure that credits earned by students are reported accurately. The district's information system must be designed to accept multiple credits for the same course number for eligible students with disabilities.

Additional Resources

For additional information regarding articulation agreements, Bright Futures Scholarships, Fine Arts/Practical Arts Credit and Equivalent Mathematics and Equally Rigorous Science Courses please refer to:
http://www.fldoe.org/academics/career-adult-edu/career-tech-edu/program-resources.stml