

Florida Department of Education  
Student Performance Standards

**Course Title:** Digital Cinema Production 1  
**Course Number:** 8201010  
**Course Credit:** 1

**Course Description:**

This course covers competencies in the history of cinema, production process, intellectual property rights, computer skills, photo editing software and production writing.

**Abbreviations:**

FS-M/LA = Florida Standards for Math/Language Arts  
NGSSS-Sci = Next Generation Sunshine State Standards for Science

*Note: This course is pending alignment in the following categories: FS-M/LA and NGSSS-Sci.*

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
04.0 Understand the history of cinema--The student will be able to:		
04.01 Understand the history of cinema (silent, sound, color).		
05.0 Understand the production process--The student will be able to:		
05.01 Identify the job titles associated with the filmmaking process.		
05.02 Identify various tools and equipment used to produce narrative productions.		
05.03 Understand speed and efficiency concepts.		
05.04 Understand a production pipeline.		
05.05 Identify the departments of a production studio.		
05.06 Understand the interrelationships between departments.		
05.07 Understand basic communication concepts (verbal, memos, paperwork).		
05.08 Identify the stages of production.		
05.09 Understand studio terms and jargon.		

<b>CTE Standards and Benchmarks</b>		<b>FS-M/LA</b>	<b>NGSSS-Sci</b>
05.10	Create and organize production paperwork into production bibles or prepare for presentations.		
05.11	Demonstrate the proper use of standard filmmaking forms.		
06.0	Understand intellectual property rights, copyright laws and plagiarism as it applies to creative assets--The student will be able to:		
06.01	Understand the limits and expectations of copyright protection.		
06.02	Understand the use of "Fair use and Fair Dealing".		
06.03	Understand the transfer and licensing of creative works.		
06.04	Understand the use of "exclusive rights" to intellectual creations.		
06.05	Demonstrate the use of digital watermarking.		
07.0	Demonstrate proficiency in computer skills--The student will be able to:		
07.01	Identify all computer parts.		
07.02	Demonstrate understanding of computer performance specifications.		
07.03	Compare and contrast difference between business machines and workstations.		
07.04	Demonstrate best practices of computer safety and ergonomics.		
07.05	Demonstrate understanding of operating systems.		
07.06	Perform software installation and setup.		
07.07	Perform peripheral device installation and setup.		
07.08	Perform computer upgrades (memory/hard disk/cards).		
07.09	Perform storage management operations (project/file).		
07.10	Demonstrate knowledge of computer maintenance.		
07.11	Demonstrate ability to troubleshoot computer hardware and software issues.		
08.0	Demonstrate knowledge of photo editing software--The student will be able to:		
08.01	Demonstrate understanding file formats and storage options.		
08.02	Identify parts of the software interface (menus/palettes).		

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
08.03 Demonstrate ability to use each of the basic tool sets.		
08.04 Demonstrate ability to import, export and save images.		
08.05 Demonstrate understanding of layers and channels.		
08.06 Demonstrate understanding of filters, effects and plug-ins.		
08.07 Demonstrate understanding of file presets.		
08.08 Demonstrate ability to select portions of an image for manipulation.		
08.09 Demonstrate ability to transform selections and images (crop, scale).		
08.10 Demonstrate ability to color correct images (brightness, hue, contrast).		
08.11 Demonstrate ability to use brushes for image creation and correction.		
08.12 Understand non-destructive and destructive operations.		
08.13 Demonstrate the basic use of video in Photoshop		
08.14 Design and print a business card.		
09.0 Demonstrate knowledge of production writing as it relates to narrative filmmaking--The student will be able to:		
09.01 Understand the job of a scriptwriter.		
09.02 Identify target audiences, markets, and demographics.		
09.03 Identify the elements of a script.		
09.04 Develop the intended message of a script.		
09.05 Demonstrate ability to write a treatment.		
09.06 Demonstrate ability to write a professionally formatted (submission) script.		
09.07 Identify the genre of a story.		
09.08 Define characters and setting for a story.		

**Florida Department of Education  
Student Performance Standards**

**Course Title:** Digital Cinema Production 2  
**Course Number:** 8201020  
**Course Credit:** 1

**Course Description:**

This course covers competencies in production management, art direction, character development, storyboarding, and funding presentations and pitches.

<b>Florida Standards</b>		<b>Correlation to CTE Program Standard #</b>
01.0	Methods and strategies for using Florida Standards for grades 09-10 reading in Technical Subjects for student success in Digital Cinema Production.	
01.01	Key Ideas and Details	
01.01.1	Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions.  LAFS.910.RST.1.1	
01.01.2	Determine the central ideas or conclusions of a text; trace the text’s explanation or depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text.  LAFS.910.RST.1.2	
01.01.3	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text.  LAFS.910.RST.1.3	
01.02	Craft and Structure	
01.02.1	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 9–10 texts and topics.  LAFS.910.RST.2.4	
01.02.2	Analyze the structure of the relationships among concepts in a text, including relationships among key terms (e.g., force, friction, reaction force, energy).  LAFS.910.RST.2.5	
01.02.3	Analyze the author’s purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, defining the question the author seeks to address.	

Florida Standards		Correlation to CTE Program Standard #
	LAFS.910.RST.2.6	
01.03 Integration of Knowledge and Ideas		
01.03.1	Translate quantitative or technical information expressed in words in a text into visual form (e.g., a table or chart) and translate information expressed visually or mathematically (e.g., in an equation) into words. LAFS.910.RST.3.7	
01.03.2	Assess the extent to which the reasoning and evidence in a text support the author's claim or a recommendation for solving a scientific or technical problem. LAFS.910.RST.3.8	
01.03.3	Compare and contrast findings presented in a text to those from other sources (including their own experiments), noting when the findings support or contradict previous explanations or accounts. LAFS.910.RST.3.9	
01.04 Range of Reading and Level of Text Complexity		
01.04.1	By the end of grade 9, read and comprehend literature [informational texts, history/social studies texts, science/technical texts] in the grades 9–10 text complexity band proficiently, with scaffolding as needed at the high end of the range.	
01.04.2	By the end of grade 10, read and comprehend literature [informational texts, history/social studies texts, science/technical texts] at the high end of the grades 9–10 text complexity band independently and proficiently. LAFS.910.RST.4.10	
02.0 Methods and strategies for using Florida Standards for grades 09-10 writing in Technical Subjects for student success in Digital Cinema Production		
02.01 Text Types and Purposes		
02.01.1	Write arguments focused on discipline-specific content. LAFS.910.WHST.1.1	
02.01.2	Write informative/explanatory texts, including the narration of historical events, scientific procedures/experiments, or technical processes. LAFS.910.WHST.1.2	
02.02 Production and Distribution of Writing		
02.02.1	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. LAFS.910.WHST.2.4	
02.02.2	Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. LAFS.910.WHST.2.5	
02.02.3	Use technology, including the Internet, to produce, publish, and update individual or shared writing products, taking advantage of technology's	

Florida Standards		Correlation to CTE Program Standard #
	capacity to link to other information and to display information flexibly and dynamically. LAFS.910.WHST.2.6	
02.03	Research to Build and Present Knowledge	
02.03.1	Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation. LAFS.910.WHST.3.7	
02.03.2	Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the usefulness of each source in answering the research question; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and following a standard format for citation. LAFS.910.WHST.3.8	
02.03.3	Draw evidence from informational texts to support analysis, reflection, and research. LAFS.910.WHST.3.9	
02.04	Range of Writing	
02.04.1	Write routinely over extended time frames (time for reflection and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences. LAFS.910.WHST.4.10	
03.0	Methods and strategies for using Florida Standards for grades 09-10 Mathematical Practices in Technical Subjects for student success in Digital Cinema Production.	
03.01	Make sense of problems and persevere in solving them. MAFS.K12.MP.1.1	
03.02	Reason abstractly and quantitatively. MAFS.K12.MP.2.1	
03.03	Construct viable arguments and critique the reasoning of others. MAFS.K12.MP.3.1	
03.04	Model with mathematics. MAFS.K12.MP.4.1	
03.05	Use appropriate tools strategically. MAFS.K12.MP.5.1	
03.06	Attend to precision. MAFS.K12.MP.6.1	
03.07	Look for and make use of structure. MAFS.K12.MP.7.1	

Florida Standards	Correlation to CTE Program Standard #
03.08 Look for and express regularity in repeated reasoning.  MAFS.K12.MP.8.1	

**Abbreviations:**

FS-M/LA = Florida Standards for Math/Language Arts

NGSSS-Sci = Next Generation Sunshine State Standards for Science

*Note: This course is pending alignment in the following categories: FS-M/LA and NGSSS-Sci.*

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
10.0 Demonstrate knowledge of production management--The student will be able to:		
10.01 Demonstrate ability to breakdown a script into production elements (cast, props).		
10.02 Understand the job of a production manager.		
10.03 Create a production board.		
10.04 From a script - create a budget (quote) from local vendors.		
10.05 Ability to write a casting call.		
10.06 Participate in the casting process.		
10.07 Scout a location and perform a site survey.		
10.08 Acquire a permit for shooting on location.		
11.0 Demonstrate knowledge of art direction--The student will be able to:		
11.01 Develop the overall visual appearance of an animation.		
11.02 Demonstrate the ability to create moods with style.		
11.03 Determine the geographic location and time period of the story.		
11.04 Understand the importance of art direction as it pertains to the message.		
11.05 Understand the use of color in art direction.		
11.06 Document the technical aspects of art direction for use in production.		
11.07 Perform the various assignments in a professional manner according to industry standards.		

<b>CTE Standards and Benchmarks</b>		<b>FS-M/LA</b>	<b>NGSSS-Sci</b>
12.0	Demonstrate knowledge of character development--The student will be able to:		
12.01	Demonstrate and understanding of character profiles.		
12.02	Demonstrate the ability to develop character resumes/profiles.		
13.0	Demonstrate knowledge of storyboarding--The student will be able to:		
13.01	Demonstrate understanding of visual storytelling and how storyboards are used during production.		
13.02	Identify common aspect ratios and how to calculate ratios.		
13.03	Demonstrate understanding of camera framing and camera movement.		
13.04	Develop a visual style using the art direction.		
13.05	Break down a script into the various camera shots and character action.		
13.06	Demonstrate understanding of perspective and depth of field.		
13.07	Demonstrate knowledge of lighting and color use.		
13.08	Demonstrate ability to sketch a storyboard including characters.		
13.09	Demonstrate ability to use storyboarding software or illustration software.		
13.10	Demonstrate the ability to create side (storyboard thumbnail pages).		
14.0	Demonstrate knowledge of funding presentations and pitches--The student will be able to:		
14.01	Understand the ecosystem associated with product distribution.		
14.02	Identify the job titles and roles of the distributors.		
14.03	Identify potential markets, target audiences, and products.		
14.04	Develop the materials needed to effectively convey the message.		
14.05	Effectively communicate a message or pitch.		
14.06	Attend an educational seminar outside of class.		
14.07	Attend a film festival.		
14.08	Acquire a domain name.		



<b>CTE Standards and Benchmarks</b>	<b>FS-M/LA</b>	<b>NGSSS-Sci</b>
14.09 Understand the process of incorporating a business.		

**Florida Department of Education  
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**Course Title:** Digital Cinema Production 3  
**Course Number:** 8201030  
**Course Credit:** 1

**Course Description:**

This course covers competencies in lighting principles, production set protocol, lighting fixtures, electricity, special effects lighting, grips, dollies and cranes, jibs and arms.

<b>Florida Standards</b>		<b>Correlation to CTE Program Standard #</b>
15.0	Methods and strategies for using Florida Standards for grades 11-12 reading in Technical Subjects for student success in Digital Cinema Production.	
15.01	Key Ideas and Details	
15.01.1	Cite specific textual evidence to support analysis of science and technical texts, attending to important distinctions the author makes and to any gaps or inconsistencies in the account.  LAFS.1112.RST.1.1	
15.01.2	Determine the central ideas or conclusions of a text; trace the text’s explanation or depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text.  LAFS.1112.RST.1.2	
15.01.3	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text.  LAFS.1112.RST.1.3	
15.02	Craft and Structure	
15.02.1	Determine the meaning of symbols key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11–12 texts and topics.  LAFS.1112.RST.2.4	
15.02.2	Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas.  LAFS.1112.RST.2.5	
15.02.3	Analyze the author’s purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, identifying important issues that remain unresolved.  LAFS.1112.RST.2.6	

Florida Standards		Correlation to CTE Program Standard #
15.03 Integration of Knowledge and Ideas		
15.03.1	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. LAFS.1112.RST.3.7	
15.03.2	Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information. LAFS.1112.RST.3.8	
15.03.3	Synthesize information from a range of sources (e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible. LAFS.1112.RST.3.9	
15.04 Range of Reading and Level of Text Complexity		
15.04.1	By the end of grade 11, read and comprehend literature [informational texts, history/social studies texts, science/technical texts] in the grades 11–CCR text complexity band proficiently, with scaffolding as needed at the high end of the range. By the end of grade 12, read and comprehend literature [informational texts, history/social studies texts, science/technical texts] at the high end of the grades 11–CCR text complexity band independently and proficiently. LAFS.1112.RST.4.10	
15.04.2		
16.0 Methods and strategies for using Florida Standards for grades 11-12 writing in Technical Subjects for student success in Digital Cinema Production.		
16.01 Text Types and Purposes		
16.01.1	Write arguments focused on discipline-specific content. LAFS.1112.WHST.1.1	
16.01.2	Write informative/explanatory texts, including the narration of historical events, scientific procedures/experiments, or technical processes. LAFS.1112.WHST.1.2	
16.02 Production and Distribution of Writing		
16.02.1	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. LAFS.1112.WHST.2.4	
16.02.2	Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. LAFS.1112.WHST.2.5	
16.02.3	Use technology, including the Internet, to produce, publish, and update individual or shared writing products in response to ongoing feedback,	

Florida Standards		Correlation to CTE Program Standard #
	including new arguments or information. LAFS.1112.WHST.2.6	
16.03	Research to Build and Present Knowledge	
16.03.1	Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation. LAFS.1112.WHST.3.7	
16.03.2	Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the strengths and limitations of each source in terms of the specific task, purpose, and audience; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and overreliance on any one source and following a standard format for citation. LAFS.1112.WHST.3.8	
16.03.3	Draw evidence from informational texts to support analysis, reflection, and research. LAFS.1112.WHST.3.9	
16.04	Range of Writing	
16.04.1	Write routinely over extended time frames (time for reflection and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences. LAFS.1112.WHST.4.10	
17.0	Methods and strategies for using Florida Standards for grades 11-12 Mathematical Practices in Technical Subjects for student success in Digital Cinema Production.	
17.01	Make sense of problems and persevere in solving them. MAFS.K12.MP.1.1	
17.02	Reason abstractly and quantitatively. MAFS.K12.MP.2.1	
17.03	Construct viable arguments and critique the reasoning of others. MAFS.K12.MP.3.1	
17.04	Model with mathematics. MAFS.K12.MP.4.1	
17.05	Use appropriate tools strategically. MAFS.K12.MP.5.1	
17.06	Attend to precision. MAFS.K12.MP.6.1	
17.07	Look for and make use of structure. MAFS.K12.MP.7.1	

Florida Standards	Correlation to CTE Program Standard #
17.08 Look for and express regularity in repeated reasoning.  MAFS.K12.MP.8.1	

**Abbreviations:**

FS-M/LA = Florida Standards for Math/Language Arts

NGSSS-Sci = Next Generation Sunshine State Standards for Science

*Note: This course is pending alignment in the following categories: FS-M/LA and NGSSS-Sci.*

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
18.0 Demonstrate understanding of lighting principles--The student will be able to:		
18.01 Identify the descriptions of the lighting crew.		
18.02 Identify relevant lighting cues from production notes.		
18.03 Create a lighting plan based on production notes.		
18.04 Demonstrate understanding of Foot-Candles.		
18.05 Demonstrate understanding of F-Stops, ISO/ASA and gain.		
18.06 Demonstrate understanding of Depth of Field.		
18.07 Demonstrate understanding of Contrast Ratio.		
18.08 Demonstrate color theory and correction.		
18.09 Demonstrate use of a light meter.		
18.10 Understand the photographic lighting principal.		
18.11 Analyze production requirements to determine lighting equipment needs.		
19.0 Demonstrate understanding of production set protocol--The student will be able to		
19.01 Demonstrate ability to stage an area for lights.		
19.02 Demonstrate ability to set lights.		
19.03 Demonstrate ability to use common hand and radio signals.		
19.04 Demonstrate ability to wrap a cable.		
19.05 Demonstrate proper cabling methods (layout/securing).		

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
19.06 Demonstrate proper cable labeling methods.		
19.07 Demonstrate safety.		
19.08 Differentiate the working relationships that exist between various participants involved in the filmmaking process.		
19.09 Perform as a member of a technical team within the framework of an organized production.		
19.10 Create a safe working environment.		
20.0 Demonstrate understanding of lighting fixtures--The student will be able to:		
20.01 Demonstrate understanding of tungsten lights.		
20.02 Demonstrate use of Fresnel, area, and open-faced lights.		
20.03 Demonstrate understanding of PAR lights.		
20.04 Demonstrate understanding of HMI lights.		
20.05 Demonstrate understanding of fluorescent lights.		
20.06 Demonstrate understanding of LED lights.		
20.07 Demonstrate an understanding of ambient and practical lighting.		
21.0 Demonstrate understanding of electricity--The student will be able to:		
21.01 Demonstrate understanding of electrical units of measure.		
21.02 Calculate amperage of lights.		
21.03 Demonstrate understanding of Ohm's Law.		
21.04 Demonstrate use of circuit protection.		
21.05 Understand types of distribution circuits (Direct Current, Alternating Current).		
21.06 Demonstrate understanding of single and three phase systems.		
21.07 Demonstrate use of proper grounding techniques.		
21.08 Demonstrate use of voltmeter.		
21.09 Demonstrate use of portable and full-size generators.		

<b>CTE Standards and Benchmarks</b>		<b>FS-M/LA</b>	<b>NGSSS-Sci</b>
22.0	Demonstrate understanding of special effects lighting techniques and equipment--The student will be able to:		
22.01	Understand lightning effects.		
22.02	Understand the challenges of lighting a green/blue screen.		
22.03	Demonstrate the proper use of fog machines.		
22.04	Demonstrate both high key and low-key lighting techniques.		
22.05	Demonstrate how to incorporate lighting into exterior day setups.		
22.06	Supervise hanging, circuiting, and focusing lights for production.		
22.07	Demonstrate use of gels and diffusions.		
22.08	Demonstrate use of neutral density filters.		
22.09	Demonstrate use of daylight conversion filters.		
23.0	Demonstrate understanding of grip principles--The student will be able to:		
23.01	Identify the descriptions of the grip crew.		
23.02	Translate script needs into creative uses of dollies, cranes and other camera mounts as required for production.		
23.03	Identify relevant grip cues from production notes.		
23.04	Analyze production requirements to determine grip equipment needs.		
23.05	Demonstrate proper and safe use of equipment.		
23.06	Appraise maintenance needs for equipment.		
24.0	Demonstrate understanding of basic grip equipment--The student will be able to:		
24.01	Demonstrate proper use of stands and stand extensions.		
24.02	Demonstrate use of small and large butterflies.		
24.03	Demonstrate proper use of sandbags.		
24.04	Demonstrate use of apple boxes and risers.		
24.05	Demonstrate ability to identify and use clamps and clips.		

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
24.06 Demonstrate ability to use specialty knots (bowline, clove hitch, square).		
24.07 Demonstrate ability to identify and use flags, dots, and fingers.		
24.08 Demonstrate ability to identify and use silks, nets.		
24.09 Demonstrate ability to identify and use reflectors and bounce boards.		
25.0 Demonstrate understanding of dollies--The student will be able to:		
25.01 Demonstrate understanding of dolly uses and limitations.		
25.02 Demonstrate understanding of dolly safety.		
25.03 Identify commonly used dolly types and manufacturers.		
25.04 Demonstrate ability to assemble dollies.		
25.05 Demonstrate effective use of track dollies during production.		
26.0 Demonstrate understanding of cranes, jibs and arms--The student will be able to:		
26.01 Demonstrate understanding of crane, jib and arm uses and limitations.		
26.02 Demonstrate understanding of crane, jib and arm safety.		
26.03 Demonstrate ability to assemble cranes, jibs, and arms.		
26.04 Identify commonly used crane, jib and arm types and manufacturers.		
26.05 Demonstrate effective use of cranes, jibs, and arms during a production.		



Florida Department of Education  
Student Performance Standards

Course Title: Digital Cinema Production 4  
Course Number: 8201040  
Course Credit: 1

Course Description:

This course covers competencies in cinematography and use of cameras.

Florida Standards	Correlation to CTE Program Standard #
15.0 Methods and strategies for using Florida Standards for grades 11-12 reading in Technical Subjects for student success in Digital Cinema Production.	
15.01 Key Ideas and Details	
15.01.1 Cite specific textual evidence to support analysis of science and technical texts, attending to important distinctions the author makes and to any gaps or inconsistencies in the account. LAFS.1112.RST.1.1	
15.01.2 Determine the central ideas or conclusions of a text; trace the text’s explanation or depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text. LAFS.1112.RST.1.2	
15.01.3 Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text. LAFS.1112.RST.1.3	
15.02 Craft and Structure	
15.02.1 Determine the meaning of symbols key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11–12 texts and topics. LAFS.1112.RST.2.4	
15.02.2 Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas. LAFS.1112.RST.2.5	
15.02.3 Analyze the author’s purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, identifying important issues that remain unresolved. LAFS.1112.RST.2.6	
15.03 Integration of Knowledge and Ideas	

Florida Standards		Correlation to CTE Program Standard #
15.03.1	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. LAFS.1112.RST.3.7	
15.03.2	Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information. LAFS.1112.RST.3.8	
15.03.3	Synthesize information from a range of sources (e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible. LAFS.1112.RST.3.9	
15.04 Range of Reading and Level of Text Complexity		
15.04.1	By the end of grade 11, read and comprehend literature [informational texts, history/social studies texts, science/technical texts] in the grades 11–CCR text complexity band proficiently, with scaffolding as needed at the high end of the range.	
15.04.2	By the end of grade 12, read and comprehend literature [informational texts, history/social studies texts, science/technical texts] at the high end of the grades 11–CCR text complexity band independently and proficiently. LAFS.1112.RST.4.10	
16.0	Methods and strategies for using Florida Standards for grades 11-12 writing in Technical Subjects for student success in Digital Cinema Production.	
16.01 Text Types and Purposes		
16.01.1	Write arguments focused on discipline-specific content. LAFS.1112.WHST.1.1	
16.01.2	Write informative/explanatory texts, including the narration of historical events, scientific procedures/experiments, or technical processes. LAFS.1112.WHST.1.2	
16.02 Production and Distribution of Writing		
16.02.1	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. LAFS.1112.WHST.2.4	
16.02.2	Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. LAFS.1112.WHST.2.5	
16.02.3	Use technology, including the Internet, to produce, publish, and update individual or shared writing products in response to ongoing feedback, including new arguments or information.	

Florida Standards		Correlation to CTE Program Standard #
	LAFS.1112.WHST.2.6	
16.03	Research to Build and Present Knowledge	
16.03.1	Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation. LAFS.1112.WHST.3.7	
16.03.2	Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the strengths and limitations of each source in terms of the specific task, purpose, and audience; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and overreliance on any one source and following a standard format for citation. LAFS.1112.WHST.3.8	
16.03.3	Draw evidence from informational texts to support analysis, reflection, and research. LAFS.1112.WHST.3.9	
16.04	Range of Writing	
16.04.1	Write routinely over extended time frames (time for reflection and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences. LAFS.1112.WHST.4.10	
17.0	Methods and strategies for using Florida Standards for grades 11-12 Mathematical Practices in Technical Subjects for student success in Digital Cinema Production.	
17.01	Make sense of problems and persevere in solving them. MAFS.K12.MP.1.1	
17.02	Reason abstractly and quantitatively. MAFS.K12.MP.2.1	
17.03	Construct viable arguments and critique the reasoning of others. MAFS.K12.MP.3.1	
17.04	Model with mathematics. MAFS.K12.MP.4.1	
17.05	Use appropriate tools strategically. MAFS.K12.MP.5.1	
17.06	Attend to precision. MAFS.K12.MP.6.1	
17.07	Look for and make use of structure. MAFS.K12.MP.7.1	
17.08	Look for and express regularity in repeated reasoning.	

Florida Standards	Correlation to CTE Program Standard #
MAFS.K12.MP.8.1	

**Abbreviations:**

FS-M/LA = Florida Standards for Math/Language Arts

NGSSS-Sci = Next Generation Sunshine State Standards for Science

*Note: This course is pending alignment in the following categories: FS-M/LA and NGSSS-Sci.*

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
27.0 Demonstrate knowledge of cinematography--The student will be able to:		
27.01 Identify the psychological effects of different types of angles (composition).		
27.02 Analyze a script for camera lens and shot requirements.		
27.03 Demonstrate understanding of different responsibilities within the camera department.		
27.04 Demonstrate knowledge of camera blocking and screen direction.		
27.05 Design a lighting plot.		
27.06 Understand the principals of photography.		
27.07 Compare the techniques used in film and video production.		
27.08 Manage resources and personnel in order to meet production deadlines.		
28.0 Demonstrate knowledge of cameras--The student will be able to:		
28.01 Demonstrate knowledge of mechanics and parts of the camera (shutter, f/stops, lenses, etc.)		
28.02 Analyze the aesthetic needs of a shot and accomplish them by using standard industry equipment		
28.03 Analyze production requirements to determine camera equipment needs		
28.04 Understand the difference between zoom and prime lenses and what lens speeds' are.		
28.05 Program and use a light meter taking (spot, reflected, and incident) readings.		
28.06 Demonstrate the proper use of filters and polarizers.		
28.07 Control lens, focal length, aperture and exposure to obtain required effects.		
28.08 Control camera movement to obtain required effects.		

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
28.09 Perform basic routine, preventative and repair maintenance on video equipment.		
28.10 Define various recording formats and media.		
28.11 Define appropriate digital compression and signal (file) types.		

Florida Department of Education  
Student Performance Standards

**Course Title:** Digital Cinema Production 5  
**Course Number:** 8201050  
**Course Credit:** 1

**Course Description:**

This course covers competencies in basic audio production, interpreting audio requirements for film production, and formulating strategies for audio recording and playback.

**Abbreviations:**

FS-M/LA = Florida Standards for Math/Language Arts  
NGSSS-Sci = Next Generation Sunshine State Standards for Science

*Note: This course is pending alignment in the following categories: FS-M/LA and NGSSS-Sci.*

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
29.0 Demonstrate basic audio production--The student will be able to:		
29.01 Demonstrate how to set up a recording environment.		
29.02 Demonstrate understanding of digital audio recording hardware.		
29.03 Demonstrate understanding of the proper use of microphones.		
29.04 Demonstrate knowledge of audio codecs and media.		
29.05 Understand the history of Foley and sound effects production.		
29.06 Demonstrate the ability to record location sounds.		
30.0 Interpret and implement audio requirements for film production--The student will be able to:		
30.01 Formulate sound design for required sound effects and dialogue replacement to complete motion picture soundtrack.		
30.02 Record dialogue replacement lines.		
30.03 Record live sound effects.		
31.0 Formulate strategies for audio recording and playback--The student will be able to:		

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
31.01 Demonstrate the use of microphones, recorders, speakers, mixers, boom poles, other recording and playback equipment.		
31.02 Demonstrate basic knowledge of acoustics.		
31.03 Evaluate recording needs.		
31.04 Evaluate technical resources as appropriate to given spaces.		
31.05 Configure and operate sound recording and playback systems to meet performance needs.		
31.06 Analyze various audio qualities to achieve proper sound mix on an audio mixer.		
31.07 Design a plot for proper microphone placement.		
31.08 Demonstrate understanding of the proper use of microphones.		
31.09 Demonstrate knowledge of audio codecs and media.		
31.10 Understand the history of Foley and sound effects production.		
31.11 Demonstrate the ability to record location sounds.		

**Florida Department of Education  
Student Performance Standards**

**Course Title:** Digital Cinema Production 6  
**Course Number:** 8201060  
**Course Credit:** 1

**Course Description:**

This course covers competencies in post-production, video editing software, audio editing software, and DVD authoring software.

**Abbreviations:**

FS-M/LA = Florida Standards for Math/Language Arts  
 NGSSS-Sci = Next Generation Sunshine State Standards for Science

*Note: This course is pending alignment in the following categories: FS-M/LA and NGSSS-Sci.*

<b>CTE Standards and Benchmarks</b>	<b>FS-M/LA</b>	<b>NGSSS-Sci</b>
32.0 Demonstrate knowledge of the post-production process--The student will be able to:		
32.01 Identify the psychological effects of different types of edits.		
32.02 Demonstrate understanding of picture and sound editing techniques (including; continuity, screen direction, and transitions).		
32.03 Sync dailies – Synchronize sound elements to picture elements.		
32.04 Formulate sound design for required sound effects and dialogue replacement to complete a motion picture soundtrack.		
32.05 Create sound effects using live Foley techniques.		
32.06 Edit and synchronize pre-recorded sound effects in sync with picture.		
33.0 Demonstrate knowledge of video editing software--The student will be able to:		
33.01 Demonstrate understanding file formats and storage options.		
33.02 Identify parts of the software interface (menus/palettes).		
33.03 Demonstrate ability to use each of the basic tool sets.		
33.04 Demonstrate ability to import, export, and save video projects.		



CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
33.05 Demonstrate understanding of layers and compositing.		
33.06 Demonstrate understanding of filters, effects and plug-ins.		
33.07 Demonstrate understanding of file presets.		
33.08 Demonstrate understanding of rendering process.		
33.09 Demonstrate ability to transform video (crop, scale).		
33.10 Demonstrate ability to color correct images (brightness, hue, contrast).		
33.11 Demonstrate ability to use brushes for image creation and correction.		
33.12 Understand non-destructive and destructive operations.		
33.13 Understand principles of stereo editing.		
34.0 Demonstrate knowledge of audio editing software--The student will be able to:		
34.01 Demonstrate understanding file formats and storage options.		
34.02 Identify parts of the software interface (menus/palettes).		
34.03 Demonstrate ability to use each of the basic tool sets.		
34.04 Demonstrate ability to import, export and save audio.		
34.05 Demonstrate understanding of multiple tracks.		
34.06 Demonstrate understanding of filters, effects and plug-ins.		
34.07 Demonstrate understanding of file presets.		
34.08 Demonstrate understanding of audio rendering process.		
34.09 Demonstrate ability to edit, cut, and delete.		
34.10 Understand non-destructive and destructive operations.		
34.11 Transfer location sound from location recording format to display format.		
34.12 Synchronize sound element to picture element.		
34.13 Demonstrate basic sound editing skills.		

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
34.14 Mix multiple tracks of dialogue, sound effects, and music into a finished soundtrack according to industry quality standards.		
35.0 Demonstrate knowledge of DVD authoring software--The student will be able to:		
35.01 Identify parts of the software interface (menus/palettes).		
35.02 Demonstrate ability to use each of the basic tool sets.		
35.03 Understand mapping to design menu layouts & navigation.		
35.04 Demonstrate ability to import media (stills, video, and audio).		
35.05 Demonstrate ability to create chapters.		
35.06 Understand the process of encoding and compression.		
35.07 Author and burn a DVD demo reel.		

Florida Department of Education  
Student Performance Standards

**Course Title:** Digital Cinema Production 7  
**Course Number:** 8201070  
**Course Credit:** 1

**Course Description:**

This course covers competencies in color correction software, composition software, and stereography.

**Abbreviations:**

FS-M/LA = Florida Standards for Math/Language Arts  
NGSSS-Sci = Next Generation Sunshine State Standards for Science

*Note: This course is pending alignment in the following categories: FS-M/LA and NGSSS-Sci.*

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
36.0 Demonstrate knowledge of color correction software--The student will be able to:		
36.01 Identify parts of the software interface (menus/palettes).		
36.02 Demonstrate ability to use each of the basic tool sets.		
36.03 Demonstrate ability to import, export and save video.		
36.04 Understand color balance, color theory, and channels.		
36.05 Demonstrate ability to create masks and mattes.		
36.06 Understand the use and operation of scopes and waveforms.		
36.07 Demonstrate how to calibrate a monitor.		
36.08 Understand the process of color grading.		
36.09 Demonstrate tracking as it relates to color correction.		
36.10 Demonstrate the process to render and output color corrected content.		
37.0 Demonstrate knowledge of compositing software--The student will be able to:		

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
37.01 Identify parts of the software interface (menus/palettes).		
37.02 Demonstrate ability to use each of the basic tool sets.		
37.03 Demonstrate ability to import, export and save video.		
37.04 Understand basic animation using effects presets.		
37.05 Demonstrate ability to animate text and layers.		
37.06 Understand the use of rotoscoping tools.		
37.07 Demonstrate how to animate masks.		
37.08 Understand the process of color correction.		
37.09 Demonstrate both single point and multipoint motion tracking.		
37.10 Demonstrate the process to render and output content.		
38.0 Demonstrate knowledge of stereography--The student will be able to:		
38.01 Understand the challenges and limitations of stereography (3D photography).		
38.02 Demonstrate an understanding of a 3D workflow.		
38.03 Demonstrate understanding of parallax and convergence.		
38.04 Demonstrate and understanding of inter-axial/inter pupillary distance.		
38.05 Demonstrate an understanding of 3D eyewear (polarized, active shutter, and anaglyph).		
38.06 Demonstrate the compositing integration of rendered 3D animation with video.		