

Secaucus  
Board  
of Education

# Digital Photography

Course Code: 8121

*Fine Arts*



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*Born on August 2017*  
*Aligned to the NJSLS for Visual and Performing Arts (2014), Technology, ELA (2016), and 21st Century Life and Careers*

*Adopted by the Secaucus Board of Education on August 24, 2017*

### **District Equity Statement**

The Board of Education directs that all students enrolled in the schools of this district shall be afforded equal educational opportunities in strict accordance with the law. No students shall be denied access to or benefit from any educational program or activity or from a co-curricular or athletic activity on the basis of the student's race, color, creed, religion, national origin, ancestry, age, marital status, affectional or sexual orientation, gender, gender identity or expression, socioeconomic status, or disability. The Board directs the Superintendent to allocate faculty, administrators, support staff members, curriculum materials, and instructional equipment supplies among and between the schools and classes of this district in a manner that ensures equivalency of educational opportunity throughout this district. The school district's curricula in the following areas will eliminate discrimination, promote mutual acceptance and respect among students, and enable students to interact effectively with others, regardless of race, color, creed, religion, national origin, ancestry, age, marital status, affectional or sexual orientation, gender, gender identity or expression, socioeconomic status, or disability:

1. School climate/learning environment
2. Courses of study, including Physical Education
3. Instructional materials and strategies
4. Library materials
5. Software and audio-visual materials
6. Guidance and counseling
7. Extra-curricular programs and activities
8. Testing and other assessments.

Excerpt from Secaucus Board of Education, Policy 5750, Edited September 2016

### **Course Description**

This is an intensive study of photographic techniques. Students learn the basics of photography: composition, light, chemistry and historical importance. Use of digital cameras and photo-manipulation software will be taught. Students are expected to keep a sketchbook/portfolio for evaluation and are expected to be part of a group discussion to help develop their creative interpretation. A summative presentation of a student created PowerPoint based on influential artists is also a requirement. DSLR (digital) cameras are encouraged. A flash drive is required.

### **Interdisciplinary Connections**

#### **NJSLS – Technology:**

- 8.1.12.A.1 Create a personal digital portfolio which reflects personal and academic interests, achievements, and career aspirations by using a variety of digital tools and resources.
- 8.1.12.A.2 Produce and edit a multi-page digital document for a commercial or professional audience and present it to peers and/or professionals in that related area for review.
- 8.1.12.D.1 Demonstrate appropriate application of copyright, fair use and/or Creative Commons to an original work.

#### **NJSLS – Mathematics:**

- G-CO.12 Make formal geometric constructions with a variety of tools and methods (compass and straightedge, string, reflective devices, paper folding, dynamic geometric software, etc.). Copying a segment; copying an angle; bisecting a segment; bisecting an angle; constructing perpendicular lines, including the perpendicular bisector of a line segment; and constructing a line parallel to a given line through a point not on the line.

- G-MG.3 Apply geometric methods to solve design problems (e.g., designing an object or structure to satisfy physical constraints or minimize cost; working with typographic grid systems based on ratios).

**NJSLS – ELA:**

- RI.9-10.4 Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings; analyze the cumulative impact of specific word choices on meaning and tone (e.g., how the language of a court opinion differs from that of a newspaper).
- W.9-10.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1–3 above.)
- W.9-10.6 Use technology, including the Internet, to produce, publish, and update individual or shared writing products, taking advantage of technology’s capacity to link to other information and to display information flexibly and dynamically.
- W.9-10.7 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.
- W.9-10.8 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.

**Career Ready Practices:**

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.

- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP3. Attend to personal health and financial well-being.
- CRP4. Communicate clearly and effectively and with reason.
- CRP5. Consider the environmental, social and economic impacts of decisions.
- CRP6. Demonstrate creativity and innovation.
- CRP7. Employ valid and reliable research strategies.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP9. Model integrity, ethical leadership and effective management.
- CRP10. Plan education and career paths aligned to personal goals.
- CRP11. Use technology to enhance productivity.
- CRP12. Work productively in teams while using cultural global competence

**Course Modifications (ELLs, Special Education, Gifted and Talented)**

The course instructor will determine, with the assistance of guidance counselors, teacher assistant/aides, and/or special education teachers, what modifications will be made for his/her students. Such examples of modifications can include, but not be limited to:

- Extended time as needed
- Modification of tests and quizzes
- Preferential seating
- Alternative/Formative assessment (projects)
- Effective teacher questioning (ranging from simple recall to higher order critical thinking questions)
- Supplemental materials
- Cooperative learning
- Teacher tutoring
- Peer tutoring
- Differentiated Instruction

<b>Domain: Art</b>		
<b>Cluster: Photography -Unit I- Introduction to The History of Photography.</b>		
<b>Standards: ARTS 1.2.12.D.4, ARTS 1.4.12.A.1, ARTS 1.4.12.A.2, ARTS 1.4.12.A.3,</b>		
<b>Essential Questions</b>	<b>Enduring Understandings</b>	<b>Activities, Investigation, and Student Experiences</b>
<ul style="list-style-type: none"> <li>● What does the phrase, “One picture is worth a thousand words” mean to you?</li> <li>● What is the intended Meaning of Visual</li> <li>● Images, Themes and Ideas in</li> <li>● Photography ?</li> <li>● How is photography an Art form?</li> <li>● How is photography able to</li> </ul>	<p>Understanding how photography is present in our lives: how images affect an audience’s perception of events or substance is crucial to the student of photography</p> <p>In our world today, we are flooded with photographic images communicated thru both print and the digital/electronic media.</p>	<p><b>I. <u>Introduction to The History of Photography.</u></b></p> <p><b>A. <u>Students will be introduced to the history of photography</u></b></p> <ol style="list-style-type: none"> <li>1. Correlation between science and photographic equipment             <ol style="list-style-type: none"> <li>a.) Chemistry</li> <li>b.) Industrialization</li> <li>c.) Optical advancements</li> </ol> </li> <li>2. Timeline of famous photographers</li> <li>3. Relationship between world events and the growth of photography.             <ol style="list-style-type: none"> <li>a.) Advances in technology</li> <li>b.) Political events</li> <li>c.) Cultural events</li> </ol> </li> </ol> <p><b>B. <u>Photography Themes throughout history.</u></b></p> <ol style="list-style-type: none"> <li>1. Portraiture</li> <li>2. Landscape</li> <li>3. Architecture</li> <li>4. Documentation of the social landscape</li> <li>5. Photojournalism</li> <li>6. Advertising</li> </ol>

<p>influence people?</p> <ul style="list-style-type: none"> <li>• How has photography evolved?</li> </ul>		
<p><b>Assessments</b></p>		
<ul style="list-style-type: none"> <li>• Classroom participation</li> <li>• Class discussion.</li> <li>• Timely completion of assigned work.</li> </ul>		
<p><b>Equipment Needed</b> - PC computers, Projection Board, Internet access, digital cameras, digital camera cards, flash drives, relevant websites of photographers and photographs, SHOWBIE website, Google Docs, epon photo printer</p>	<p><b>Teacher Resources:</b></p> <p><b>GOOGLE docs</b>  <a href="http://www.showbie.com">www.showbie.com</a>  <a href="http://www.masters-of-photography.com">www.masters-of-photography.com</a>  <a href="http://www.youtube.com">www.youtube.com</a></p>	

<b>Domain: Art</b>		
<b>Cluster: Photography –Unit II-Introduction to Photography</b>		
<b>Standards: ARTS 1.3.12.D.2, ARTS 1.3.12.D.4, ARTS 1.3.12.D.5, ARTS 1.4.12.A.2</b>		
<b>Essential Questions</b>	<b>Enduring Understandings</b>	<b>Activities, Investigation, and Student Experiences</b>
<ul style="list-style-type: none"> <li>• How will students learn the terminology and vocabulary of digital photography, print and photo manipulation through computer software?</li> <li>• What is photography?</li> </ul>	<p>Using vocabulary and terminology specific to the photography experience is crucial to the students’ growth as both an artist and a technician.</p> <p>Using and applying the Rule of Thirds.</p>	<p><b>II. <u>Introduction to Photography</u></b></p> <p><b>A. <u>Using language of the photographer.</u></b></p> <ol style="list-style-type: none"> <li>1. Photography specific vocabulary             <ol style="list-style-type: none"> <li>a.) Photo Techniques</li> <li>b.) Digital Camera and equipment</li> <li>c.) Rules of Photography</li> </ol> </li> <li>2. Art related vocabulary             <ol style="list-style-type: none"> <li>a.) The Elements of Art</li> <li>b.) Principles of Design</li> <li>c.) Presentation Techniques</li> </ol> </li> <li>3. Technology terms and vocabulary             <ol style="list-style-type: none"> <li>a.) Digital Camera</li> <li>b.) Image-storage</li> <li>c.) Image-sharing</li> <li>d.) Photo manipulation software</li> </ol> </li> </ol>
<b>Content Statements</b>		

<p>Seeing the photographer as both an artist and a technician.</p>		
<p><b>Assessments</b></p>		
<p>Classroom participation            Class discussion.            Timely completion of assigned work.            Periodic tests to assess information retention            Notebook/worksheets            Tests: quarterly/midterm/final            Portfolio/self-assessment</p>		
<p><b>Equipment Needed</b> - PC computers, Projection Board, Internet access, digital cameras, digital camera cards, flash drives, relevant websites of photographers and photographs, SHOWBIE website, Google Docs, epson photo printer</p>		<p><b>Teacher Resources:</b></p> <p><b>GOOGLE docs</b>  <b><a href="http://www.showbie.com">www.showbie.com</a></b>  <b><a href="http://www.masters-of-photography.com">www.masters-of-photography.com</a></b>  <b><a href="http://www.youtube.com">www.youtube.com</a></b></p>

<b>Domain: Art</b>		
<b>Cluster: Photography –Unit III-Introduction to Cameras and Equipment</b>		
<b>Standards: ARTS 1.3.12.D.2, ARTS 1.3.12.D.3</b>		
<b>Essential Questions</b>	<b>Enduring Understandings</b>	<b>Activities, Investigation, and Student Experiences</b>
<ul style="list-style-type: none"> <li>● How can the students learn the use and care of photography equipment?</li> <li>● How is the camera an extension of the human eye?</li> <li>● What are the common components in all cameras?</li> <li>● What are the various camera types and special uses?</li> <li>● How does the photographer operate the</li> </ul>	<p>Students will be able to understand how following classroom rules prevents problems with community equipment.</p>	<p><b>III. <u>Introduction to Digital Cameras and Equipment</u></b></p> <p>A. <b><u>Introduction to Photography Equipment.</u></b></p> <ol style="list-style-type: none"> <li>1. Cameras             <ol style="list-style-type: none"> <li>a.) Digital SLR</li> </ol> </li> <li>B. <b><u>Digital equipment</u></b> <ol style="list-style-type: none"> <li>1. Memory Cards</li> <li>2. Flash Drives for storage</li> <li>3. Computer software for photo manipulation</li> <li>4. Computer for storage</li> <li>5. Printers- Inkjet and Laser</li> <li>6. Tripods</li> <li>7. Lights</li> <li>8. Backdrops</li> <li>9. Camera battery and chargers</li> </ol> </li> </ol>

camera controls?		
<b>Content Statements</b>		
Students will become well versed in the basic care and function of photographic materials		
<b>Assessments</b>		
Classroom participation Class discussion. Timely completion of assigned work. Periodic tests to assess information retention Notebook/worksheets Tests: quarterly/midterm/final Portfolio/self-assessment		
<b>Equipment Needed</b> - PC computers, Projection Board, Internet access, digital cameras, digital camera cards, flash drives, relevant websites of photographers and photographs, SHOWBIE website, Google Docs, Epson photo printer		<b>Teacher Resources:</b>  <b>GOOGLE docs</b> <a href="http://www.showbie.com">www.showbie.com</a> <a href="http://www.masters-of-photography.com">www.masters-of-photography.com</a> <a href="http://www.youtube.com">www.youtube.com</a>

<b>Domain: Art</b>		
<b>Cluster: Photography –Unit IV- Introduction to Cameras.</b>		
<b>Standards: ARTS 1.3.12.D.2, ARTS 1.3.12.D.4, ARTS 1.3.12.D.5, ARTS 1.4.12.A.2</b>		
<b>Essential Questions</b>	<b>Enduring Understandings</b>	<b>Activities, Investigation, and Student Experiences</b>
<ul style="list-style-type: none"> <li>• How will the students understand the differences between a traditional film and a digital camera?</li> </ul>	<p>Advancements in science affect our lives in unexpected ways.</p> <p>Every day and world events are now captured digitally as they take place. Photography and digital media have forever changed the dissemination of the news.</p>	<p><b>IV. <u>Introduction to Cameras.</u></b></p> <p><b>A. Film-based, traditional</b></p> <ol style="list-style-type: none"> <li>1.) Review of History of Photography</li> <li>2.) Review of camera evolution</li> </ol> <p><b>B. Digital Cameras</b></p> <ol style="list-style-type: none"> <li>1.) Simple             <ol style="list-style-type: none"> <li>a.) Basic parts</li> </ol> </li> </ol> <p><b>C. Digital SLR</b></p> <ol style="list-style-type: none"> <li>1.) Advanced controls</li> <li>2.) Shutter speeds</li> <li>3.) Aperture</li> <li>4.) Lens</li> <li>5.) ISO</li> <li>6.) Resolution</li> </ol>
<b>Content Statements</b>		

<p>The mechanical and practical differences between a traditional camera and a digital camera are the result of advancements in technology.</p>		
<p><b>Assessments</b></p>		
<p>Classroom participation          Class discussion.          Timely completion of assigned work.          Periodic tests to assess information retention          Notebook/worksheets          Tests: quarterly/midterm/final          Portfolio/self-assessment</p>		
<p><b>Equipment Needed</b> - PC computers, Projection Board, Internet access, digital cameras, digital camera cards, flash drives, relevant websites of photographers and photographs, SHOWBIE website, Google Docs, Epson photo printer</p>		<p><b>Teacher Resources:</b>   <b>GOOGLE docs</b>  <a href="http://www.showbie.com">www.showbie.com</a>  <a href="http://www.masters-of-photography.com">www.masters-of-photography.com</a>  <a href="http://www.youtube.com">www.youtube.com</a></p>

<b>Domain: Art</b>		
<b>Cluster: Photography –Unit V- Introduction to Digital Photography.</b>		
<b>Standards: ARTS 1.3.12.D.2, ARTS 1.3.12.D.4, ARTS 1.3.12.D.5, ARTS 1.4.12.A.2</b>		
<b>Essential Questions</b>	<b>Enduring Understandings</b>	<b>Activities, Investigation, and Student Experiences</b>
<ul style="list-style-type: none"> <li>How will the students use their digital cameras in photography?</li> </ul>	<p>Science, (chemistry) and art (photography) are clearly connected. Advancements in science affect our lives in unexpected ways.</p> <p>Every day and world events are now captured digitally as they take place. Photography and digital media have forever changed the dissemination of the news.</p>	<p><b>V. <u>Introduction to Digital Photography.</u></b></p> <ul style="list-style-type: none"> <li><b><u>Using the camera controls.</u></b></li> <li><b><u>Understanding the pixel and image capture process</u></b> <ul style="list-style-type: none"> <li>Resolution</li> <li>File sizes</li> </ul> </li> <li><b><u>Selecting an image to be printed based on quality</u></b> <ul style="list-style-type: none"> <li>Technical</li> <li>Artistic</li> </ul> </li> <li><b><u>Importing images to the computer</u></b> <ul style="list-style-type: none"> <li>Using the memory card</li> <li>Using a flash drive</li> </ul> </li> <li><b><u>Using available software</u></b> <ul style="list-style-type: none"> <li>Adjusting resolution and size</li> <li>Correcting levels of saturation</li> <li>Adjusting color</li> <li>Cropping the image</li> </ul> </li> <li><b><u>Storing the selected and manipulated images</u></b> <ul style="list-style-type: none"> <li>On a memory card</li> <li>On a flash drive</li> <li>On the Network</li> <li>On GOOGLE docs</li> </ul> </li> </ul>
<b>Content Statements</b>	<p>Capturing the photographic image thru artistic expression remains the same. The speed and output are what separate digital from traditional film photography.</p>	
<p>This is the introduction to digital cameras, images, and printing the photos.</p>		

<p><b>Assessments</b></p>	<ul style="list-style-type: none"> <li>● <b><u>Saving the selected and manipulated images</u></b> <ul style="list-style-type: none"> <li>○ PSD files</li> <li>○ JPEG files</li> <li>○ Submitting work digitally through SHOWBIE</li> </ul> </li> <li>● <b><u>Setting up the printer</u></b> <ul style="list-style-type: none"> <li>● Selecting paper types</li> <li>● Selecting optimum output formats and sizes</li> <li>● Printing the photograph</li> </ul> </li> <li>● <b><u>Review and Critique</u></b></li> <li>● <b><u>Print and Matte selected images</u></b></li> </ul>
<p>Classroom participation            Class discussion.            Timely completion of assigned work.            Periodic tests to assess information retention            Notebook/worksheets            Tests: quarterly/midterm/final            Portfolio/self-assessment</p>	<p><b>Teacher Resources:</b></p> <p><b>GOOGLE docs</b>  <a href="http://www.showbie.com">www.showbie.com</a>  <a href="http://www.masters-of-photography.com">www.masters-of-photography.com</a>  <a href="http://www.youtube.com">www.youtube.com</a></p>
<p><b>Equipment Needed</b> – PC computers, Projection Board, Internet access, digital cameras, digital camera cards, flash drives, relevant websites of photographers and photographs, SHOWBIE website, Google Docs, epon photo printer</p>	

<b>Domain: Art</b>		
<b>Cluster: Photography –Unit VI- Introduction to Photo Manipulation Software</b>		
<b>Standards: ARTS 1.3.12.D.2, ARTS 1.3.12.D.4, ARTS 1.3.12.D.5, ARTS 1.4.12.A.2, Tech 8.1.12.A.1</b>		
<b>Essential Questions</b>	<b>Enduring Understandings</b>	<b>Activities, Investigation, and Student Experiences</b>
<ul style="list-style-type: none"> <li>How will the students use their computer software in photography to manipulate images?</li> </ul>	<p>Science, (chemistry) and art (photo graphy) are clearly connected. Advancements in science affect our lives in unexpected ways.</p> <p>Every day and world events are now captured digitally as they take place. Photography and digital media have forever changed the dissemination of the news.</p>	<p><b>VI. <u>Introduction to Photo manipulation software.</u></b></p> <ul style="list-style-type: none"> <li><u>Adobe Photoshop</u></li> <li><u>Importing images to the computer</u> <ul style="list-style-type: none"> <li>Using a memory card</li> <li>Using a flash drive</li> </ul> </li> <li><u>Selecting and Opening a File</u> <ul style="list-style-type: none"> <li>Becoming familiar with the basic program tools</li> <li>Becoming familiar with the layer palette</li> <li>Becoming familiar with adjustment tool locations</li> </ul> </li> <li><u>Adjusting a File-Basic</u> <ul style="list-style-type: none"> <li>Adjusting resolution and size of image</li> <li>Adjusting saturation, color and hue of image</li> <li>Desaturating an image</li> <li>Cropping an image</li> <li>Dragging one image (file) into another for manipulation</li> <li>Adjusting layers- positioning</li> </ul> </li> <li><u>Adjusting a File-Intermediate</u> <ul style="list-style-type: none"> <li>Adjusting opacity</li> <li>Adjusting levels and curves</li> <li>using the lasso tool, eraser tool, magic wand tool</li> </ul> </li> <li><u>Adjusting a File-Advanced</u> <ul style="list-style-type: none"> <li>Adding Blurs and Noise</li> </ul> </li> </ul>
<b>Content Statements</b>	<p>Capturing the photographic image thru artistic expression remains the same. The speed and output are what separate digital from traditional film photography.</p>	
<p>This is the introduction to the computer program Adobe Photoshop, the industry standard in photography.</p>		

<p><b>Assessments</b></p>	<ul style="list-style-type: none"> <li>○ Adding Vignettes</li> <li>○ Adjusting layers- hiding</li> <li>○ Adding layer masks</li> <li>● <u>Saving a File</u> <ul style="list-style-type: none"> <li>○ How to save PSD files versus JPEG files.</li> <li>○ Why you use PSD files and JPEG files.</li> </ul> </li> </ul>
<p>Classroom participation            Class discussion.            Timely completion of assigned work.            Periodic tests to assess information retention            Notebook/worksheets            Tests: quarterly/midterm/final            Portfolio/self-assessment</p>	
<p><b>Equipment Needed</b> – PC computers, Projection Board, Internet access, digital cameras, digital camera cards, flash drives, relevant websites of photographers and photographs, SHOWBIE website, Google Docs, Epson photo printer</p>	

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<b>Domain: Art</b>		
<b>Cluster: Photography –Unit VII- Introduction to Career Opportunities in Photography</b>		
<b>Standards: ARTS 1.3.12.D.4, Career 9.1.12.B.1, Career 9.1.12.B.2, Career 9.1.12.B.3, Career 9.1.12.B.4, Tech 8.1.12.D.1, Tech 8.1.12.A.2</b>		
<b>Essential Questions</b>	<b>Enduring Understandings</b>	<b>Activities, Investigation, and Student Experiences</b>
<ul style="list-style-type: none"> <li>How can the students use photography in their future?</li> </ul>	<p>How can you keep the Art of Photography in your life? What are the pros and cons of social media and the internet regarding photography?</p>	<p><b>VII. <u>Introduction to Career Opportunities in Photography</u></b></p> <p><b>A. <u>Professional Venues</u></b></p> <ol style="list-style-type: none"> <li>Commercial</li> <li>Portrait Studio</li> <li>Photojournalist</li> <li>Fashion</li> <li>Fine Art</li> <li>Technical</li> <li>Social Media</li> </ol> <p><b>B. <u>Protecting Your Work</u></b></p> <ol style="list-style-type: none"> <li>Watermarks</li> <li>Branding</li> <li>Copyrights</li> <li>Plagiarism</li> </ol> <p><b>C. <u>Hobbyist</u></b></p> <ol style="list-style-type: none"> <li>Causal</li> <li>Dedicated</li> </ol> <p><b>D. <u>Powerpoint presentation on a professional photographer: past or present day.</u></b></p>
<b>Content Statements</b>	A person can include photography in their lives and still make other career choices.	
Discussion of career versus recreational photography.	A person can become a professional photographer although it is a difficult field to survive in.	
<b>Assessments</b>		
Classroom participation Class discussion. Guest Speakers- professional photographer		

<p>Periodic tests to assess information retention Notebook/worksheets Tests: quarterly/midterm/final Portfolio/self-assessment</p>	
<p><b>Equipment Needed</b> - PC computers, Projection Board, Internet access, digital cameras, digital camera cards, flash drives, relevant websites of photographers and photographs, SHOWBIE website, Google Docs, epson photo printer</p>	<p><b>Teacher Resources:</b> <b>GOOGLE docs</b> <b><a href="http://www.showbie.com">www.showbie.com</a></b> <b><a href="http://www.masters-of-photography.com">www.masters-of-photography.com</a></b> <b><a href="http://www.youtube.com">www.youtube.com</a></b> <b>Guest Speakers</b></p>