

Silk Screen Printing Overview

Content Area: **Technology Literacy**
Course(s): **SILK SCREEN PRINTING**
Time Period:
Length: **90 Days**
Status: **Published**

Cover

EAST BRUNSWICK PUBLIC SCHOOLS

East Brunswick New Jersey

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Course Adoption: 4/21/1986

Curriculum Adoption: 4/21/1986

Date of Last Revision Adoption: 9/1/2017

Course Overview

COURSE DESCRIPTION

Students are introduced to the screen printing process, using hand-cut techniques for printing single color and multicolor images on various types of paper. They soon advance to photographic processes and stencil creation utilizing the horizontal camera and the darkroom for indirect photographic silk-screen printing.

Students develop desktop publishing skills via the use of clipart and Internet images to design and produce graphics that can be printed on paper, glass and fabric, such as t-shirts and jackets. The equipment available for student use includes a network of the newest and fastest Macintosh computers, laser printers, and scanners.

COURSE SCOPE AND SEQUENCE

Sequential Unit Description	Other Pacing Guide References	Proficiency (Summative) Assessments
UNIT 1 INTRODUCTION TO MAC OSX		
<ul style="list-style-type: none">• Identify major work areas of the OS for ease of navigation• Finder window, sidebar, dock, general docs• Utilize key features of the OS for file organization using view choice and terminology• Dock customization with applications and views• East Brunswick's Acceptable Use Policy and its application to our classroom	2 days	<ul style="list-style-type: none">• OSX Review Worksheet – teacher developed• Acceptable Use contract – teacher developed
UNIT 2 BASIC INTRODUCTION TO PHOTOSHOP CS3		
<ul style="list-style-type: none">• Utilize major tool functions for image manipulation as needed for silk screen printing activities• Uncover and select tools in “flyout” menus when appropriate• Select and proportionally resize images for use on silk screen activities• Breakdown toolbar into major sections:<ul style="list-style-type: none">○ Selection○ Crop and Slice	2 days	<ul style="list-style-type: none">• Photoshop CS3 Toolbar – teacher developed• Practical test

- Retouching
- Drawing and Type
- Assistance
- Swatches
- Modes

UNIT 3 SINGLE COLOR HAND-CUT STENCILS

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| <ul style="list-style-type: none"> ● Mandatory Clip Art Image TLA <ul style="list-style-type: none"> ○ Safe stencil-cutting techniques ○ Adhering stencils to silk screen ○ Registration of images on paper ○ Printing and clean-up techniques | 10 days for Mandatory Clip Art Image TLA | <ul style="list-style-type: none"> ● Teacher-developed procedure handouts ● Individual projects ● Practical test |
| <ul style="list-style-type: none"> ● Choice Hand-cut Images TLA <ul style="list-style-type: none"> ○ Saving / transferring Internet images ○ Photoshop use for image preparation | 12 days for both Choice Hand-cut Image TLA | |
| <ul style="list-style-type: none"> ● Text-only Hand-cut Image TLA <ul style="list-style-type: none"> ○ Setting and viewing customized fonts/text from Internet ○ Resizing and positioning text layers in Photoshop | 5 days for Text-only Hand-cut Image TLA | |

UNIT 4 MULTICOLOR HAND-CUT STENCILS

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| <ul style="list-style-type: none"> ● Near Registration Hand-cut Image TLA <ul style="list-style-type: none"> ○ Hand-cutting color separations ○ Ink color print sequence ○ Registration of multiple colors | 14 days for both Multicolor Registration Hand-cut Image TLA | <ul style="list-style-type: none"> ● Teacher-developed procedure handouts ● Individual projects ● Practical test ● Handcut Stencil |
| <ul style="list-style-type: none"> ● Overlapping Registration Hand-cut Image TLA <ul style="list-style-type: none"> ○ Hand-cutting color separations | | |

- Ink color print sequence
- Registration of multiple colors

Quiz

UNIT 5 PHOTOGRAPHIC STENCILS

- Horizontal Camera
 - Line art image selection
 - Camera-ready artwork
 - Grayscale
- The Darkroom
 - Chemical Safety
 - Orthographic Film Developing
- Pulsar Photographic Stencil TLA
 - Detailed line art image selection
 - Camera-ready artwork
- Hi-Fi Green Photographic Stencil TLA
 - Broad stroke line art image selection
 - Camera-ready artwork

15 days for both Pulsar
Photographic Stencil
Image TLA

15 days for both Hi-Fi
Green Photographic
Stencil Image TLA

- Teacher-developed procedure handouts
- Individual projects
- Practical test
- Photographic Stencil and Darkroom Chemistry Quiz

UNIT 6 SCREEN PRINTING ON ALTERNATE SUBSTRATES

- Printing on Textiles
 - Registration of image, textile, and silk screen techniques
 - Printing with T-shirt Press
 - Fabric ink vs. paper ink
 - Heat-setting ink
- Glow-in-the-dark Image Textile Printing TLA
- Multicolor Image Water-Slip Decal TLA
 - Backing ink vs. design ink

5 days for Glow-in-the
Dark Image Textile
Printing TLA

10 days for Multicolor
Image Water-slip
Decal TLA

- Teacher-developed procedure handouts
- Individual projects
- Practical test

- Registration of multiple colors on decal transfer paper

CONTENT FOCUS AREA AND COURSE NAME

Course Name: Silk Screen Printing - #1322

Course Number	School Numbers	Course Level	Grades(s)	Credits	Min. Per Week	Elective/Required	Initial Course Adopted
1322	050	S	10-12	2.50	210	E	04/21/86

Standards

9.3.12.AR.1	Analyze the interdependence of the technical and artistic elements of various careers within the Arts, A/V Technology & Communications Career Cluster.
9.3.12.AR-PRT.1	Manage the printing process, including customer service and sales, scheduling, production and quality control.
9.3.12.AR-PRT.2	Demonstrate the production of various print, multimedia or digital media products.
9.3.12.AR-PRT.3	Perform finishing and distribution operations related to the printing process.
9.3.12.AR-VIS.1	Describe the history and evolution of the visual arts and its role in and impact on society.
9.3.12.AR-VIS.2	Analyze how the application of visual arts elements and principles of design communicate and express ideas.
9.3.12.AR-VIS.3	Analyze and create two and three-dimensional visual art forms using various media.
VPA.1.1.12.D.1	Distinguish innovative applications of the elements of art and principles of design in visual artworks from diverse cultural perspectives and identify specific cross-cultural themes.
TECH.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.
TECH.8.1.12.A.CS1	Understand and use technology systems.
TECH.8.1.12.A.CS2	Select and use applications effectively and productively.
TECH.8.1.12.B.CS1	Apply existing knowledge to generate new ideas, products, or processes.
TECH.8.1.12.B.CS2	Create original works as a means of personal or group expression.

Grading and Evaluation Guidelines

GRADING PROCEDURES

In terms of proficiency level the East Brunswick grades equate to:

- A Excellent - Advanced Proficient
- B Good Above Average - Proficient
- C Fair - Proficient
- D Poor - Minimally proficient
- F Failing - Partially Proficient

COURSE EVALUATION

Each quarter students will be evaluated with tests and programming assignments using a total point basis to determine the quarter average. The semester/course average will be a weighted average of the 2 quarter averages (40% each) and a final exam (20%); in a full year course, each quarter is worth 20% of a student's final grade and each exam (midterm & final) is worth 10% of the student's final grade.

Course achievement will be evaluated based on the percent of all pupils who achieve the minimum level of proficiency (final average grade) in the course. Student achievement levels above minimum proficiency will also be reported. Final grades, and where relevant mid-term and final exams, will be analyzed by staff for the total cohort and for sub-groups of students to determine course areas requiring greater support or modification.

Other Details

05160 Printmaking/Graphics

Printmaking/Graphics courses cover the same topics as Creative Art—Comprehensive courses, but focus on design principles, printmaking, and graphic design.