**Beacon Program Course Syllabus**

**H.S. Instructor Name:** Robert Raeihle

**Suffolk Course Title & Catalog Number**: ART140: Introduction to Digital Photography **Suffolk Credit Hours:** 3 cr. Hrs.

**H.S. Course Title: Digital Photography**

**Student Audience: Grade 9-12**

**Semester(s) Offered: Fall and Spring**

**Instructor contact information and office hours (extra help sessions): Tuesdays 2:30-3:30**

**Course Description**:

This course is an exploration of digital photography as a multimedia production medium and develops the skills necessary for basic camera and computer imaging operations. Introduces basic camera skills including exposure control, composition, depth of field, and movement control while photographing in available light. The history of photographic development through digital photography and overview of camera basics and functions will be reviewed and expanded through portfolio development, assignments given, Adobe Photoshop & Lightroom. Lessons and assignments associated with photo imaging will be explored in depth.  Taking pictures, exposure control, exposure modes, in camera functions, loading images into Photoshop, viewing image info and settings. Creating custom masks, experimenting with channel operations, combining images, creating animation, combining images with text, automating masks are part of the coursework. Optimizing images for the web will be introduced as well as putting images online for multimedia projects. Students will also learn basic imaging processing skills using a digital darkroom consisting of computer, software and inkjet printers.

**Course Pre-requisites/Co-requisites:** Studio in Media Art

**Learning Outcomes:**

Upon completion of this course, students will be able to:

1. Effectively use a digital camera and smartphone cameras
2. Demonstrate basic camera techniques to obtain consistent exposures in daylight, low light, and at night.
3. Creatively use the photographic techniques of depth-of-field and movement control.
4. Practice photographic composition to produce images beyond that of a snapshot.
5. Creatively use light to strengthen the aesthetic quality of their images.
6. Demonstrate basic digital workflow management.
7. Effectively use basic image processing skills to balance digital images including density and contrast control, basic black and white conversion, dodging, burning, cropping, and retouching using adobe photoshop and adobe lightroom.
8. Demonstrate basic ink jet printing skills to properly make balanced prints.
9. Demonstrate print presentation and archival storage methods.

**Procedures for Accomplishing Course Objectives:**

Students are expected to explore their own creative potential, artistic expression and personal photographic style. Exploration of the technology, theory and application of digital image processing equipment and procedures, particularly in relation to photographic processes. Principles of input, output and computer processing techniques are covered.

**Student Responsibilities and Requirements for Completion of the Course:**

*By the end of the course, students will be able to:*

Implement image manipulation software for multimedia productions. Understand the practical elements involved in digital camera use. Examining such things as camera control, media needed, using applicable technology combined with electronic media.

(A) Understanding the influences that have led to development of digital photography equipment and digital imaging.

(B) Analyze and compare digital imaging hardware and software (ADOBE Photoshop and ADOBE LIGHTROOM).

(C) Demonstrate knowledge of the digital imaging process.

(D) Understand major characteristics of the creative process in digital photography and identify which appropriate equipment will be required.

(E) Create a digital photography portfolio emphasizing composition, depth of field, motion control, nature, architecture, portrait, speed, and photo essays.

(F) Analyze and discuss photographic images both historical and peer critique

(F) Produce a “Final portfolio”. (for ONE semester) The final portfolio grade will reflect completion of the basic requirements, digital darkroom skills, originality, artistic expression, cohesiveness and presentation.

***Assignments:*** *Photographic techniques will be demonstrated and assigned as projects. These processes should be meaningful adjuncts to the entire image.*

**Grading Procedures:**

|  |  |  |
| --- | --- | --- |
| SUFFOLK Grade | High School Grade | Quality Points |
| A | 90-100% | 4.0 |
| B+ | 85-89% | 3.5 |
| B | 80-84% | 3.0 |
| C+ | 75-79% | 2.5 |
| C | 70-74% | 2.0 |
| D+ | 65-69% | 1.5 |
| D | 60-64%; | 1.0 |
| F | Below 60% | 0.0 |

All grades earned will be included on the student's permanent record/Suffolk transcript. Students are encouraged to direct questions about their grade, to their classroom teacher. Instructions to view Suffolk grades and have an academic transcript sent is located on the

**Beacon Program website:**

[www.sunysuffolk.edu/Beacon](http://www.sunysuffolk.edu/Beacon)

**Student Absence and Lateness Policies:**

Attendance: CHS policy states that students may be drop failed from the class upon the fourth unexcused absence and the student will be assigned to a supervised study hall. of the scheduled class meetings.

Tardy Policy: A student who is late three times the student will be charged with one full (illegal) absence unless the student can provide valid reasons for one or more of these tardies.

Assignments/Missed Exams: It is the student's responsibility, whether present or absent, to obtain all material presented and to complete all course assignments. If prior arrangements are made or extenuating circumstances exist, makeup of tests and projects may be allowed. Late shooting assignments and final projects will not be accepted unless those same extenuating circumstances exist. Makeup lab time is to be at the instructor's discretion and lab availability.

Excessive absence or lateness may lead to failure in, or removal from, the course with no credit awarded.

A student may be required to drop or withdraw from a course, with no tuition refund, when, in the judgment of the administration, absences have been excessive.

**Textbook and Learning Resources**:

**Weekly Outline of Topics to be Covered:**

WEEK ONE: Digital Camera (DSLR) Functions Part 1

1. Introduction to the 35mm film camera (Nikon FM10 / Canon Rebel)
   1. Camera Diagram
   2. Parts Identification / Manual Functions
   3. Histograms

WEEK TWO: Smartphone Camera Functions Part 1

1. How does a smart phone camera work?
2. Parts Identification / Manual Functions
3. Apps for Manual Camera Functionality (Android and IOS)

WEEK THREE: Workflow: File types / File Management (PC)

1. File types: Jpg, RAW
2. Megapixels
3. Image stabilization

WEEK FOUR: Digital Camera (DSLR) Functions Part 2

1. Advancements into the world of technology.
2. The exposure Triangle
3. F-Stops / Shutter Speeds / ISO-ASA

WEEK FIVE: Smartphone Camera Functions Part 2

1. Benefits of Smartphone photography
2. Optical Zoom, Wide-Angle, Telephoto
3. Quality
4. Google Photos, Uploading - Downloading and saving files

WEEK SIX: Introduction to ADOBE Photoshop CC 1

1. Introduction to the Photoshop interface
2. Basic understanding of documents, image properties.

WEEK SEVEN: Introduction to ADOBE Photoshop CC 2

1. Transforming and editing images
2. understanding various file formats
3. “How to” and “where to” save work
4. Utilize the adjustments panel and image adjustments.
5. Making the best selections with various tools.
6. Keyboard shortcuts

WEEK EIGHT: ADOBE Photoshop CC

1. Layers
2. Copying, Cutting and pasting
3. Selections: Marquee selection tools
4. Dodging and Burning

WEEK NINE: ADOBE Photoshop CC

1. Image Adjustments: Levels, Brightness and Contrast
2. Hue and Saturation, Vibrance, Histogram
3. Exposure
4. Curves

WEEK TEN: ADOBE Photoshop CC

1. Tools: Eyedropper
2. Brush tool
3. Healing Brush
4. Clone Stamping

WEEK ELEVEN: ADOBE Photoshop CC

1. Adjustment layers
2. Cropping
3. Masking: Nondestructive editing

WEEK TWELVE: ADOBE Photoshop CC

1. Filters: Liquify
2. Sharpening
3. Blending Modes
4. Transform Tools

WEEK THIRTEEN: ADOBE Photoshop CC

1. Black and white conversion
2. Infrared Technique
3. HDR
4. Text tool

WEEK FOURTEEN: Personal vision / style development

1. Developing a field study of subject matter.
2. Learning Rule of Thirds and computer-based editing.
3. Understanding color theory in photography and how it impacts your images.

WEEK FIFTEEN: ADOBE Photoshop CC

1. Projects creating collage of photography in Photoshop
2. Scanning and moving images
3. further understanding of technology in Photography

WEEK SIXTEEN: Working with “themes”

1. Themed digital works
2. research into photographers of choice.

WEEK SEVENTEEN: Studio Work / Advertising

1. Starting in studio setups and lighting.
2. Flat Lay product work
3. Tungsten and Strobe - table top techniques
4. Mini studios

WEEK EIGHTEEN: Introduction to Lightroom

1. Lightroom and how the process works
2. File handling / Importing files
3. Camera Calibration
4. Lens Corrections
5. Searching for images
6. Presets
7. Creating a collection
8. WB, Tone, Presence

WEEK NINETEEN: Abstract / Conceptual

1. Abstracts through the eyes of the artist
2. Foil / Paper / Water & Oil (in studio)
3. Underwater techniques (fish tank)
4. Close-up / Macro techniques

WEEK TWENTY: Presentation skills

1. Printing, presentation
2. Portfolio development / E-Portfolios
3. Online Gallery Creation
4. Artists Tear Sheets
5. Resume / Exhibition
6. Art Gallery show

**The following in-class / shooting assignments are required (but not limited to) for the course over the span of 20 weeks:**

Composition

Action shots

Depth of Field

Melted object

Multiplicity

Portrait Expressions Collage

Tight Cropping

Food Photography

Single color

Paper Sculpture

Foil

Oil / water / pigment

Mirror Image / Kaleidoscope

Time Exposure

Nature Deconstructed

Landscapes

Flat Lay

Table top studio work

Portraits

High Key

Subject Study

Multiplicity

Shadows and Reflections

Surrealism

Levitation

Invisible person

Hand drawn / Hand colored

Photo Tear Sheet

**FINAL ASSESSMENTS:**

Virtual Gallery Space

Wok displayed in showcase / art gallery

*\*Additional connections / lessons are infused during weekly lab sessions*

1. Copy work
2. On-Site photo assignments
3. Visiting Artists / Photographic Professionals
4. Field Trips - Museums / Galleries (in-person and virtual)
5. Photo Contests / Shows
6. Connections to Traditional Photography
7. Films
8. Arts-In-Education opportunities
9. Shadowing and internships
10. Community service work through photography
11. Alumni connections / presentations

**Statement of Academic Integrity**:

Commack’s Student Code of Conduct expressly prohibits “any and all forms of academic or other dishonesty.” While this code should be read broadly and does not define such conduct in exhaustive terms, the following conduct clearly falls under the heading of academic dishonesty.

**Cheating**

Any form of cheating, be it on a formal examination, informal quiz or other submitted material, is a violation of college conduct. Copying material from fellow students or from other sources, including electronic devices, during an examination may result in a failing grade for the course and/or serious disciplinary sanctions as outlined in the Code of Conduct. When students work together on a project, this becomes a joint responsibility for a group so designated and should be limited to the people and resources agreed upon with the instructor.

**Plagiarism**

Students should realize that presenting the words and ideas of others as their own is dishonest. In writing, students must fully credit the source of any quoted, paraphrased, or summarized passages and any ideas which they have borrowed. Failure to conform to these academic standards is plagiarism and may result in a failing grade for the course and/or serious disciplinary sanctions as outlined in the Code of Conduct.”