Merrillville High School

CAREER AND TECHNICAL EDUCATION COURSE SYLLABUS

Course Information:

High School Course Title & DOE #: Principles of Digital Design – 7140 **HS Credits:** 2.0

Length of Course: 1 trimester

Recommended High School Prerequisites: None

High School Faculty Information:

Name: Joshua Metz

Office Location: Merrillville High School

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Catalog Description:

Principles of Digital Design introduces students to fundamental design theory. Investigations into design theory and color dynamics will provide experiences in applying design theory, ideas and creative problem solving, critical peer evaluation, and presentation skills. Students will have the opportunity to apply the design theory through an understanding of basic photographic theory and technique. Topics will include image capture, processing, various output methods, and light.

Course Objectives:

Design Fundamentals

- Define and apply design process theory.
- Create compositions, artwork, illustrations, layouts, designs, etc. that demonstrate the effective use of the elements and principles of design.
- Demonstrate creative and visual problem-solving skills through exercises and/or projects utilizing vector/raster-based graphics programs and/or other traditional processes.
- Generate ideas, notes and thumbnails manually or digitally.
- Create oral or written justification using appropriate design vocabulary.
- Engage in critical peer evaluation.

Photography (Camera Needed)

- Demonstrate an ability to operate a camera using manual controls.
- Measure incidental and reflective light for a subject and determine the proper camera
- settings.
- Demonstrate printing equipment to produce properly exposed and processed prints.
- Learn and employ methods of image correction.
- Produce photographs which demonstrate an ability to control focus in a variety of situations.
- Demonstrate an understanding of depth of field.
- Demonstrate an understanding of capturing and freezing motion.
- Understand how to apply the theory of equivalent exposures and bracketing.
- Demonstrate the effects of time of day on the qualities and direction of available light.
- Demonstrate an understanding of photographic filters and how they work.
- Demonstrate an understanding of photographic composition and design.
- Produce photographs that exhibit conceptual thinking ability.

Required High School Textbook/Resources:

Signed agreements for tool/hardware use, proper clean up of workstations, and classroom etiquette
Recommended: Flash Drives 32 gigabytes or higher (provided by student)

Grading and Evaluation:

Grades are electronically entered into Skyward. Final exams constitute 20% of overall trimester grade.

Methods of Evaluation:

Diagnostic, hands-on novice level projects, midterm and final exam.

Grading Scale:

92-5-100 = A

89.5-92.49 = A-

86.5-89.49 = B+

82.5-86.49 = B

79.5 - 82.49 = B-

76.5 - 79.49 = C+

72.5 - 76.49 = C

69.5 - 72.49 = C-

66.5 - 69.49 = D+

62.5 - 66.49 = D

59.5 - 62.49 = D-

59.49 and below = F

Attendance/Tardy Policy:

Students are expected to attend class and to let the instructor (Mr. Metz) know by email if they have to be absent for any reason.

Students not in their seat by the sound of the bell (the start of class) will be marked tardy. Students arriving 15 minutes late to class, will need to report to student services for a valid pass. ***Students without a valid tardy pass will not be admitted into the classroom.***

Classroom Etiquette:

- Each student is expected to participate actively in class activities. Active participation involves coming to class prepared, responding to questions, and engaging in class activities and assignments.

- The instructor (Mr. Metz) will provide specific due dates for all assignments on the board, and in Google Classroom. ***Late assignments will be reduced by one letter grade from the grade earned, unless valid communication with the instructor is made, prior to the deadline.***

- Discontinue the use of all electronic devices for the duration of each class. Cell phones are **NOT** permitted in class. If you have an emergency, let the instructor (Mr. Metz) know, before stepping out into the hall so as to not disturb others in the class. If you are using your cell phone instead of paying attention in class, the instructor (Mr. Metz) will ask you to put it away. If the problem persists, you will be sent to Student Services.

- Students are expected to spend approximately five (5) hours a week, on average, completing homework assignments in order to achieve the learning objectives for this 12-week course.

- Each student assumes the responsibilities of being a member of the Merrillville School Corporation academic community. ***All acts of plagiarism will not be tolerated,*** including:

    - *cheating*
    - *claiming one's work as their own*
    - *fabrication/helping one to commit any of these acts.*

  Any violations of academic honesty will receive disciplinary action, according to the rules set forth within the student handbook.

Instructional Methods:

Class discussions, PowerPoint, YouTube, demonstration, teacher modeling, group activities, peer feedback, and individual feedback.

Accommodations:

Students that require any accommodation (such are students with disabilities, religious conflicts, etc...) should notify the instructor as early as possible and accommodations will be made on an individual basis in adherence with the regulations outlined in the student handbook.

Assignments and Tentative Course Schedule:

1st 12 weeks

Class Meeting	Topic	Assigned Work	Work Due and Exams
Week 1	Introductions, Intro to Design Production Theory	“Get to know me” WS, Design Process Theory WS	“Get to know me” WS, Signed Hardware/Student Etiquette Agreement, Design Process Theory WS
Week 2	Intro to Raster/Vector Graphics, Creative Problem Solving, Critiquing	Design Process Theory 1 + 2 WS	Design Process Theory 1 + 2 WS
Week 3	Design Element Focuses - Shape, Line, Typography	Design Element Focus - Shape, Line, Typography WS, Design Element Focus - Shape, Line Exercises	Design Element Focus - Shape, Line, Typography WS, Design Element Focus - Shape, Line Exercises
Week 4	Design Element Focuses - Typography, Color, Texture	Design Element Focus - Color, Texture WS, Design Element Focus - Typography, Color, Texture Exercises	Design Element Focus - Color, Texture WS, Design Element Focus - Typography, Color
Week 5	Design Element Focuses - Texture, Space	Design Element Focus - Space WS, Design Element Focus - Space Exercises	Design Element Focus - Space WS, Design Element Focus - Texture, Space
Week 6	Review for Midterms	Redraw/Revise Assignment, Midterm Study Guide	Redraw/Revise Assignment, Midterm Study Guide
Week 7	Digital Photography Intro, Digital Photography Basics	Digital Photography Vocab WS	Digital Photography Vocab WS
Week 8	Camera Operation Practical Applications	Photography Prompts	Photography Prompts, Critiques
Week 9	Intro to Photoshop/Illustrator, Project Brainstorming Session	Photoshop knowledge check WS, Illustrator knowledge check WS, Cover Redesign Project	Photoshop knowledge check WS, Illustrator knowledge check WS
Week 10	Cover Redesign Project Lab Time	Cover Redesign Project	Cover Redesign Project
Week 11	Critique Week	Critique of Cover Redesign Project	Critique of Cover Redesign Project
Week 12	Final Review Week	Final study Guide	Final Test

2nd 12 weeks

Class Meeting	Topic	Assigned Work	Work Due and Exams
Week 1	Introductions, Intro to Design Production Theory	“Get to know me” WS, Design Process Theory WS	“Get to know me” WS, Signed Hardware/Student Etiquette Agreement, Design Process Theory WS
Week 2			
Week 3			
Week 4			
Week 5			
Week 6	Review for Midterms	Redraw/Revise Assignment, Midterm Study Guide	Redraw/Revise Assignment, Midterm Study Guide
Week 7			
Week 8			
Week 9			
Week 10			
Week 11			
Week 12	Final Review Week	Final study Guide	Final Test