



COURSE OUTLINE REVISED SPRING 2008

DMA211
Course Number
3
Credits

Digital Imaging II
Course Title
1 lecture/ 4 studio hours
Hours: lecture/laboratory/other (specify)

Catalog description:

Intermediate skills in digital imaging using a professional software application. Focuses on principles of masking and compositing. Students will learn how to use high-resolution capture devices, shoot photographs in a digital studio, composite photographs seamlessly and manipulate light and color to create continuity.

Prerequisites: DMA 110 with a minimum C grade or divisional permission

Co-requisites: N/A

Is course New or Modified? New

Required texts/other materials:

Photoshop Masking & Compositing

by Katrin Eismann

Publisher: New Riders Press (October 8, 2004)

ISBN-13: 978-0735712799

You be required to print out all of your final work for this class on our professional Epson printer. To use this printer you will need to supply your own professional inkjet paper as well as pay a fee for the ink.

Last revised: Fall 2007

Course coordinator: Sarah Sweeney, x3457, sweeneys@mccc.edu

Information resources:

- Required textbook
- Digital files from instructor's computer
- Online tutorials
- Artist's websites
- Computer hardware and software
- Lectures and demonstrations in class

Course-specific General Education Core Competencies and Goals.

- B.5. Students will solve problems by applying discipline-appropriate methods and standards.
- E.1. Students will demonstrate proficiency in using major categories of computer software such as word processing, spreadsheet and presentation software.
- E.2. Students will be proficient in using an interface and managing files.
- E.3. Students will use email and communication software effectively and appropriately.
- E.4. Students will use a web browser and search engines to seek information and will recognize types of information and sources.
- E.5. Students will understand the impact of computers on society.
- 4.1. Students will demonstrate proficiency with electronic communications as appropriate to their program.
- 4.2. Students will demonstrate a working knowledge of a major domain of technological application.
- 4.3. Students will demonstrate the ability to use a particular technology or group of technologies to analyze or solve problems in general and within their academic discipline.
- 8.1. Students will recognize, analyze, and assess historical and contemporary works using accepted approaches and criteria.
- 8.2. Students will develop foundational skills using art media, music, dance, or dramatic material.
- 8.3. Students will apply skills and synthesize concepts to create and present individual performances and projects.
- 8.4. Students will assess and evaluate their work and that of their peers.

Course goals:

The student will be able to:

- Conceptualize, plan and create a digital image that visually expresses an idea.
- Identify the photographic conventions that contribute to photorealism.
- Select or capture images that work together to create an effective photorealist composite.
- Demonstrate the ability to use masks and channels to effectively composite images from unrelated sources.
- Demonstrate the ability to use masks and channels to add color, lighting and textural effects.
- Discuss the implications of photo manipulation within different industries and genres.

Units of study in detail.

Unit I **Selection Techniques**

Learning Objectives

The student will be able to...

- Conceptualize, plan and execute a self-portrait that has been digitally reshaped.
- Demonstrate ability to capture a self-portrait using a digital camera.
- Demonstrate ability to analyze an image and choose the best selection technique.
- Demonstrate ability to create a selection using the quick mask, color range, magic wand, marquee, elliptical and lasso tools.
- Demonstrate ability to refine a selection using the feather and modify commands.
- Demonstrate ability to save, load and store selections.
- Demonstrate ability to retouch an image using the clone and healing tools.
- Describe the behavior of light and value and the role that they play in creating photorealist imagery.
- Discuss the possibilities and problems posed by reshaping and refining images of the body.
- Critically analyze and evaluate portraits created by photographers in the fashion industry.
- Discuss his/her work during a critique and critically evaluate and justify his/her own artistic and vocational practice.

Unit II **Paths**

Learning Objectives

The student will be able to...

- Conceptualize, plan and execute a still life that includes a digitally contrived object.
- Demonstrate ability to capture a texture using a scanner.
- Demonstrate ability to download an image from a stock photography website.
- Demonstrate ability to create paths that silhouette both simple and complex objects using the pen tool.
- Demonstrate ability to refine paths using the pen and path selection tools.
- Demonstrate ability to create clipping masks and selections from paths.
- Demonstrate ability to fill a path using a color or a gradient.
- Identify and describe the different types of layers and blending modes.
- Demonstrate ability to create realistic shadows and reflections using duplicate, fill and adjustment layers.
- Describe the behavior of shadow and reflection and the role that they play in creating photorealist imagery.
- Discuss the possibilities and problems posed by creating objects that do not physically exist.
- Critically analyze and evaluate editorial images created by photographers in the advertising industry.
- Discuss his/her work during a critique and critically evaluate and justify his/her own artistic and vocational practice.

Unit III **Masks**

Learning Objectives

The student will be able to...

- Conceptualize, plan and execute a landscape that is created from several different exposures.
- Demonstrate ability to use a digital camera to capture different exposures.
- Identify the different types of masks and describe the advantages and disadvantages of each.
- Demonstrate ability to select a mask technique based on the type of composite.
- Demonstrate ability to create a channel, layer and vector mask.

- Describe the behavior of different sources of light and the role each source plays in creating a photorealist image.
- Discuss the possibilities and problems posed by creating a multi-exposure environment.
- Critically analyze and evaluate interior images created by architectural photographers.
- Discuss his/her work during a critique and critically evaluate and justify his/her own artistic and vocational practice.

Unit IV Refining Masks

Learning Objectives

The student will be able to...

- Conceptualize, plan and execute a portrait in which the subject and background photographs were captured in different locations.
- Demonstrate ability to use a digital camera to capture a portrait with a green screen background.
- Demonstrate ability to silhouette a subject by combining masks.
- Demonstrate ability to select and mask translucent subjects using green screen techniques.
- Demonstrate ability to refine a layer mask using the paintbrush tool, the multi-pass technique and the image calculation tool.
- Demonstrate ability to use adjustment layers to match image color and texture.
- Describe the role that color temperature plays in creating a photorealist image.
- Discuss the possibilities and problems posed by changing the location of a photograph.
- Critically analyze and evaluate green screen composite images used by special effects teams in the film industry.
- Discuss his/her work during a critique and critically evaluate and justify his/her own artistic and vocational practice.

Unit V Special Effects Techniques

Learning Objectives

- Conceptualize, plan and execute a narrative photograph using multiple source photographs.
- Demonstrate ability to create painted, gradated and selective layer masks.
- Demonstrate ability to apply color, tone or sharpening selectively using adjustment masks.
- Demonstrate ability to add artificial weather effects using layer masks.
- Demonstrate ability to add artificial lighting effects using layer masks.
- Describe the role that scale and perspective play in establishing or subverting realism in photographic imagery.
- Critically analyze and evaluate narrative photographs created by digital artists.
- Discuss his/her work during a critique and critically evaluate and justify his/her own artistic and vocational practice.

Unit VI Creative Compositing

Learning Objectives

- Conceptualize, plan and execute a series of digital images that share a common theme or interest.
- Critically analyze and evaluate serial digital images created by digital artists.
- Discuss his/her work during a critique and critically evaluate and justify his/her own artistic and vocational practice.

Evaluation of student learning:

Instructional modes to be used are: Integrated lecture and laboratory, studio assignments with specifications and limitations set by the instructor, demonstrations by the instructor, and discussions and critiques of student work.

The student is responsible for his or her regular attendance, participation in classroom discussions and critiques of student work, and for including his or her work to be discussed and evaluated. Diligent work on assignments is essential.

Evaluation of progress and grades are determined by the instructor, based upon the following considerations: attendance, participation, and estimate of quality of class work and homework assignments (by instructor).

Values of quality, aesthetics, etc., are based upon the instructor's judgment of the work produced, the effort employed, and the total result achieved. To receive full credit, all assignments are due on time. A late assignment will be accepted one class period after due date with a reduced letter grade. After one missed class period, late assignments will receive the grade of "F".

The grade of "A" will be earned by students who demonstrate mastery of the essential elements of the material presented, as well as demonstrating excellence in aesthetics and originality in completing course objectives with at least 90% achievement.

The grade of "B" will be earned by students who demonstrate more than adequate mastery of the essential elements of the material presented and acceptable knowledge of the course content. Achievement will be demonstrated when all of the specific course objectives are fulfilled with at least 80% achievement.

The grade of "C" will be earned by students who demonstrate adequate mastery of the essential elements of the material presented. Achievement will be demonstrated when all of the specific course objectives are fulfilled with at least 70% achievement.

The grade of "D" is undesirable, but indicates a minimum passing of the course requirements. All of the course objectives must be fulfilled with at least 60% achievement.

The grade of "F" will be earned by students who do not demonstrate achievement.

Grade Breakdown

| | Percent Overall Grade |
|---------------------------------------|-----------------------|
| Class Attendance and Participation | 10% |
| Project 1: Selection Techniques | 15% |
| Project 2: Paths | 15% |
| Project 3: Masks | 15% |
| Project 4: Refining masks | 15% |
| Project 5: Special Effects Techniques | 15% |
| Project 6: Creative Compositing | 15% |

Academic Integrity Statement:

Students are expected to comply with the college-wide requirements for academic integrity. Mercer County Community College is committed to Academic Integrity—the honest, fair, and continuing pursuit of knowledge, free from fraud or deception. This implies that students are expected to be responsible for their own work. Presenting another individual's work as one's own and receiving excessive help from

another individual will qualify as a violation of Academic Integrity. The entire policy on Academic Integrity is located in the Student handbook and is found on the college website (http://www.mccc.edu/admissions_policies_integrity.shtml).