Bergen Community College Division of Arts and Humanities Department of Visual Arts

Course Syllabus

Course Designation, Number, and Title

ART-197: Computer Imaging

Basic Information About Course and Instructor

- Semester and Year:
- Section Number:
- Meeting Times:
- Location:

Instructor:

- Office Location:
- Phone:
- Email Address:
- Office Hours:

Course Description

Official Catalog Course Description:

This course teaches the basic principles of digital image processing and manipulation, including image acquisition, editing, color correction, channels, special effects, and transformation techniques. Emphasis is placed on methods used to create, retouch, alter, and output bit-mapped graphics.

- Credits: 4 (2 lecture, 2 laboratory)
- Prerequisite: None

Student Learning Outcomes (SLOs)

As a result of meeting the requirements in this course, students will be able to:

- 1. Use the tools, interface, and digital imaging capabilities of industry-standard digital imaging software.
- 2. Identify key components of bitmapped graphics production.
- 3. Critically evaluate (aesthetically and technically) their own work and the work of others.
- 4. Propose, design, and create graphic and photographic images on the computer.

Means of Assessment:

- Graded art projects demonstrating specified skills.
- Evaluations through critiques and presentations.

Course Content

The course includes lectures, demonstrations, studio time, and critiques (both one-on-one and group).

Major Topics Covered:

- The Basics of the Bitmap: pixel dimensions, resolutions, color depth, file size, and file formats
- Compositing Bitmaps: selection, masking, layers
- Touchup and Effects: brushes and filter effects
- Image Color and Tonal Adjustments: levels, curves, and info
- Type and Paths
- Acquisition: digital cameras and scanners
- Output: print graphics, web graphics, and multimedia/video graphics

Course Texts and/or Other Study Materials

- Students must bring portable disk drives to each class session to save and back up coursework.
- Bergen Community College is not responsible for student work left on workstations.
- **Optional Text:** *Photoshop CS5 for Windows and Macintosh: Visual QuickStart Guide* by Elaine Weinmann & Peter Lourekas (ISBN-10: 0-321-70153-4)

Research, Writing, and/or Examination Requirement(s)

- Projects demonstrating technical and creative proficiency.
- Group and individual critiques.

Grading Policy

Grades are primarily based on class projects, with evaluations as follows:

• A: Demonstrates originality, technical mastery, diligence, and commitment to digital imaging.

- **B:** Fully completed, technically competent, with solid design decisions.
- C: Completed but demonstrates weak technique, lacking creativity or cohesiveness.
- D: Partially completed or does not meet assignment requirements.
- F: Not submitted or fails to engage with course material.

Attendance Policy

All students are expected to attend every scheduled course meeting. Attendance and lateness policies will be established in writing by the instructor for the course section. Attendance records will be kept for administrative and counseling purposes.

Other College, Divisional, and/or Departmental Policy Statements

- Academic Integrity: Refer to the BCC Academic Integrity Policy.
- **ADA Statement:** Students requiring accommodations should contact the Office of Specialized Services (OSS).
- Sexual Harassment Policy: Refer to BCC's policy on harassment and misconduct.

Course Outline and Calendar

Week	Topic/Activity	Assignments/Events
1	Elements of Pixel-Based Graphics	Tutorial
2	Navigating the Software Interface	Tutorial
3	Compositing: Selection and Layers	Begin Project 1
4	Compositing: Selection and Masking	Continue Project 1
5	Channels and Masks	Finish Project 1 / Critique
6	Brushes and Touchup Work	Begin Project 2
7	Tonal and Color Adjustments	Continue Project 2
8	Type, Paths, and Shapes	Finish Project 2 / Critique
9	Acquisition (Scanning and Digital Cameras)	Begin Project 3
10	Effects and Filters	Finish Project 3 / Critique
11	Animation	Animation Project
12	Output for Print	Begin Final Project
13	Output for Web	Continue Final Project

14 Final Critique

Note: This Course Outline and Calendar is tentative and subject to change based on class progress.

Student and Faculty Support Services

- Library Resources: Bergen Community College Library
- Student Support Services: <u>Bergen Student Services</u>
- Office of Specialized Services: <u>Accessibility & Disability Services</u>

This syllabus aligns with the Senate-approved syllabus template as of May 2024.