

Common Course Outline

CGVC 207

Digital Imaging II

3 Semester Hours

The Community College of Baltimore County

Description

CGVC 207 – 3 Credits – Digital Imaging II builds upon the skills learned in CGVC 120, Digital Imaging I, and introduces advanced image manipulation and editing techniques using the latest software. Students produce a variety of projects that incorporate the use of complex channel and layer techniques, image compositing using raster and vector-based components and color adjustments.

3 credits; 2 lecture hours; 2 laboratory hours per week

Prerequisite: CGVC 120 or permission of program coordinator

Overall Course Objectives

Upon successful completion of the course the student should be able to:

1. use advanced layering and masking techniques to develop compositions;
2. exchange information between raster and vector based files and applications ;
3. modify designs using layer blending modes;
4. produce sized and calibrated color print and screen output;
5. use file compression software and removable media to manage files;
6. create invented color palettes with duotones/tritones, gradient mapping, channel mixing and other color adjustments;
7. use digital image capture hardware including scanners and cameras;
8. use editing techniques non-destructively;
9. apply color corrections using curves and levels controls;
10. maintain realistic consistency in compositing considering texture, lighting, shadows, perspective and expertly-applied retouching;
11. use visual references to model consistent realism;
12. create and optimize graphics for screen-based presentation;
13. make custom brushes, actions and droplets;
14. manage workflow and workspace;
15. use channels to modify selections, and
16. use actual, invented, and simulated texture mapping.

Major Topics

- I. Managing files, workspace and workflow
- II. Resolution and file size for different situations, optimization, file formats, and modes
- III. Choosing selection methods appropriate to conditions

- IV. Selection modification techniques
- V. Types of layers, layer blend modes, adjustment layers and masks
- VI. Image adjustments
 - a. Levels
 - b. Curves
 - c. color manipulation tools
- VII. Avoidance of destructive adjustments
- VIII. Advanced masking
 - a. layer masks
 - b. clipping masks
 - c. channels
 - d. blending sliders
- IX. Special effects for type and graphics including invented color schemes
- X. Compositing techniques
- XI. Spatial design concepts, shallow space, invented space, illusion of space
- XII. Maintaining visual consistency of lighting, shadow, perspective, texture gradient, focus and resolution

Course Requirements

Grading/Exams: Grading procedures will be determined by the individual faculty member but will include the following:

- Six to ten short exercises
- Two to four major portfolio projects
- Final portfolio presentation and critique

Other Course Information

CGVC 207 is a required course for the Computer Graphics and Visual Communication Photography/Imaging, Graphic Design, Computer Illustration, and Interactive Design degree options.

This course is taught in a computerized environment.

Individual faculty members may include additional course objectives, major topics, and other course requirements to the minimum expectations stated in the Common Course Outline.