

GART 130 Competencies

Software: Adobe Photoshop and Illustrator

Applicable High School Courses

Courses that cover Photoshop and Illustrator are most commonly Computer Art, Fine Art, Photography, Web Design, and Newspaper Staff, etc.

General Competencies

In addition to the requirements for Graphic Arts and GART 129, students for GART 130 are expected to have the following competencies:

In *Photoshop* the student should . . .

1. Be able to create a new document
2. Be able to adjust an existing documents size with appropriate pixels per inch (ppi) for use in printing or other high quality output.
 - a. Be able to adjust image size with or without resampling
3. Have a good understanding of layers and how they work.
 - a. Be able to create and arrange multiple layers for image editing
 - b. Be able to apply layer styles
 - c. Be able to create and apply layer masks
4. Be able to make basic photo corrections including:
 - a. Be able to perform nondestructive editing using adjustment layers.
 - b. Be able to increase/decrease shadow and high-light
 - c. Be able to adjust levels and curves
 - d. Be able to crop images to specific sizes
5. Be able to save images in correct color mode for 4-color process printing
6. Demonstrate knowledge and use of retouching and repairing tools.
 - a. Be able to use layers to make corrections to images without disturbing the original.
7. Be able to create selections, size, rotate, save and combine selections with other elements.
8. Demonstrate ability to create masks and use channels to apply filter effects.
9. Be able to create a clipping mask from type and objects.
10. Be able to create vector objects to use in conjunction with raster images.

11. Be able to create and apply Actions to automate tasks.
12. Be able to print the image using color separation

In *Illustrator* the student should . . .

1. Have a good understanding of layers and how they work.
 - a. Be able to transfer objects between and create new layers
2. Demonstrate ability to use the Selection and Direct Selection tools to select groups of objects as well as individual objects and points.
 - a. Be able to manipulate objects using points and handles
3. Be able to use the pen tool to create and manipulate objects.
 - a. Be able to add, subtract, and convert points.
 - b. Be able to create objects with curved paths.
4. Demonstrate ability to transform objects by rotating, scaling, reflecting, shearing, and changing the perspective.
5. Be able to use the appearance attributes to manipulate the appearance of objects.
6. Be able to create and use patterns for use with the brush tool.
7. Be able to create and apply Graphic Styles.
8. Demonstrate ability in creation and manipulation of type, inline and as objects.
9. Be able to create and apply blends to objects.
10. Demonstrate ability to manipulate imported raster images with the filters and effects in Illustrator.

Lecture Topics

Although these topics may not be part of the competency, it may be helpful to know the additional topics covered in this course beyond the software instruction.

Throughout the lectures and software lessons, industry standards are addressed. The GART program uses the Sappi Paper's: The Standard-Preparing Files for Print (available online at sappi.com) as a basis for design and page layout standards of the industry. It addresses many of the competency indicators for file creation and submission.

- Visual Voice of Type
- Graphic File Formats

- Sappi Paper's: The Standard-Preparing Files for Print
- Corporate Identity
- Communicating with Color
- Type in a Digital Environment

Textbooks Used

Listed below are the textbooks from which software lessons, lectures, and some projects are drawn.

- The Graphic Designer's Digital Toolkit, 4th ed., Allan Wood, 2010, ISBN: 1-4390-5669-2
- Exploring Typography, Rabinowitz, ISBN # 1-4018-1505-7
- Graphic Communications, 5th ed., Z.A. Prust, 2010, Textbook, 1-60525-061-8
- Practical Problems in Mathematics for Graphic Communications, 2nd Ed., ISBN# 0-8273-7946-3