

GRDSN 142

COURSE LEARNING OUTCOMES (CLOs)

1. Explore the use of raster images in computer imaging.
2. Describe the form and function of a RIP (raster image processor).
3. Compare the resolution of imagesetters, file ppi, and halftone lpi.
4. Describe how imagesetter dots combine to make Halftone dots. Compare halftone screening options, i.e. stochastic and conventional.
5. Edit pixel and vector images for reproduction.
6. Determine the appropriate input and output values for printed images.
7. Use image tone adjustment tools to improve printed image appearance.
8. Adjust image colors to ensure accurate reproduction of the original subject.
9. Define trapping and use tools in Illustrator to trap simple images.
10. Use Color management technologies.
11. Explore color theory and describe the RGB, CMYK, LAB, and paint pigment color spaces.

Course Outline

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 - D. Compare halftone screening options, i.e. stochastic and conventional.
- II. Edit pixel and vector images for reproduction.
 - A. Determine the appropriate input and output values for printed images.
 - B. Use image tone adjustment tools to improve printed image appearance.
 - C. Adjust image colors to ensure accurate reproduction of the original subject.
 - D. Define trapping and use tools in Illustrator to trap simple images.
- III. Use Color management technologies.
 - A. Explore color theory and describe the RGB, CMYK, LAB, and paint pigment color spaces.
 - B. Describe the ICC color management processes; color management engines, profiles, tagging, converting, etc.
- IV. Use Acrobat PDF in a production workflow.
 - A. Generate PDF files by printing as PostScript output and processing with Distiller.
 - B. Preview color separations in composite PDF files with Acrobat Pro.
 - C. Set up Acrobat compression options. Check results by extracting images.
- V. Manage page layouts.
 - A. Review the use of printer spreads.

B. Create the artwork to define die lines, embosses, etc.

VI. Explore printing technology.

A. Research books and articles on print technology.

B. Explore the techniques of printing onto paper: letterpress, litho, etc.

C. Describe the paper manufacturing process.

D. Describe the system of paper classifications.

VII. Prepare files for printing.

A. Perform file troubleshooting with software tools.

B. Manage spot colors to ensure proper output.

C. Check image tone values for printing.

D. Collect the files required for delivery of jobs to print shops.