South Central College

GCC 1260 Printing Processes

Common Course Outline

Course Information

Description  
This course is designed to acquaint the learner with the fundamentals of printing ink on various substrates. Coursework includes terminology, equipment and safety. The principles of offset lithography, screen, laser and inkjet printing are stressed in a hands-on laboratory atmosphere. Basic prep and post-press processes are also stressed in this course. (Prerequisites: GCC 1120 Graphic Software 1 and GCC 1130 Layout and Typography with a C- or better.)

Total Credits 4.00
Total Hours 112.00

Types of Instruction

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Pre/Corequisites

Prerequisite  GCC 1120 Graphic Software 1 and GCC 1130 Layout and Typography with a C- or better.

Institutional Core Competencies

Ethical reasoning and action: Students will develop ethical and social responsibility to self and others, and will collaborate with others to address ethical and social issues in a sustainable manner.

Foundations and skills for lifelong learning: Students will display an understanding of learning as a lifelong process through demonstration of a desire to learn, the willingness to apply learning to other areas of their lives, the ability to think and act independently, be willing to take the initiative to get projects done, and demonstrate the ability to reflect upon what has occurred and how it impacts the student and others.

Teamwork and problem-solving: Students will demonstrate the ability to work together cohesively with diverse groups of persons, including working as a group to resolve any issues that arise.

Course Competencies

1 Prepare digital layouts for print.
   Learning Objectives
   Create professional-looking layouts for print outputs.
   Use page layout, vector, and raster softwares.
   Mix text, graphics, and photographs within layouts.

2 Compare various substrates and media for printing.
Learning Objectives
Differentiate among the various substrate classifications.
Select various substrates used for various outputs.
Prepare various substrates for printing.

3 Discover the various printing processes within the industry.

Learning Objectives
Summarize the fundamentals of offset printing.
Summarize the fundamentals of screen printing.
Summarize the fundamentals of digital printing.
Summarize the fundamentals of relief printing.
Summarize the fundamentals of intaglio printing.
Summarize the fundamentals of laser and inkjet printing.

4 Recognize components of printing equipment.

5 Perform proofing and plating outputs.

Learning Objectives
Create various files for outputting.
Perform file management functions on servers and within workflow software.
Operate color proofing devices.
Operate high-end plating equipment.

6 Operate various printing equipment.

Learning Objectives
Perform offset press operations.
Perform screen printing operations.
Perform pad printing operations.
Perform laser and inkjet printing operations.

7 Interpret the bindery and finishing functions.

Learning Objectives
Explain the importance of the bindery/finishing processes.
Differentiate among the various pieces of equipment within a bindery/finishing department.

8 Operate various bindery and finishing equipment.

Learning Objectives
Utilize various bindery/finishing equipment.
Work in a safe manner with bindery/finishing equipment.

9 Perform maintenance on equipment.

Learning Objectives
Demonstrate maintenance on press equipment.
Demonstrate maintenance on inkjet equipment.
Demonstrate maintenance on bindery equipment.

10 Discover emerging trends in the printing and finishing portion of the industry.

Learning Objectives
Scan for new technology within the industry.
Report on emerging trends within the industry.

11 Interpret various color models used within the industry.

Learning Objectives
Differentiate among the various color models.
Perform color calibrations with output devices.
Operate color measuring equipment.

12 Demonstrate safe work habits.
Learning Objectives
Operate all equipment in a safe manner at all times.
Maintain a clean work area for a safe and professional environment.
Stay updated with Right-to-Know, OSHA, EPA and other safety/environmental/legal information.

13 Demonstrate teamwork attributes while working within the labs.

Learning Objectives
Communicate with peers on partner/team projects.
Assist peers to solve issues and problems.

SCC Accessibility Statement
If you have a disability and need accommodations to participate in the course activities, please contact your instructor as soon as possible. This information will be made available in an alternative format, such as Braille, large print, or cassette tape, upon request. If you wish to contact the college ADA Coordinator, call that office at 507-389-7222.

Disabilities page http://southcentral.edu/academic-policies/disability-rights.html