SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

ACADEMIC AFFAIRS

Course Number: **GRPH-~~360~~ 361**   Department: **GRAPHIC ARTS TECHNOLOGY**

Course Title: **Digital Presswork**   Semester: Fall   Year: 2011

Objectives/Competencies

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1. Read and interpret production information on job jacket/ticket:	A. Utilize the production information correctly for each job. B. Write a job ticket with all the pertinent information. C. Estimate the cost of a print job including the costs of the Various supplies.
2. Identify safety issues in the pressroom:	A. Evaluate the printing press's mechanical components, including its safety guards. B. Develop safe work habits in the pressroom. . C. Understand the correct use of safety equipment in the press room. D. Manage an emergency.

3. Prepare and use paper (or other substrates) for printing:	A. Identify paper size, quantities and weight such as ream and boxes. B. Identify substrate problems that can occur prior to a press run. C. Cut paper to size for production work. D. Identify the proper grain direction of paper- taking account for folding, and scoring. E. Jog paper stock to feed correctly.
4. Understand how to load toner into digital press:	A. Replace toner cartridges. B. Replace the waste container. C. Calibrate the toner for accurate color work.
4. Calibrate a Digital Printing Press:	A. Utilize the Pantone Matching Color System Chart, and understand how the base-set inks are mixed. B. Use a densitometer and spectrophotometer to calibrate the press. C. Calibrate color charts for press use.
5. Utilize Preflighting Software :	A. Open and use PDF files for digital output. B. Correctly layout a PDF file for printing. C. Preflight a project.

6. Make Offset Printing Plates:	A. Identify the correct plate for a specific color or job. B. Develop a plate. C. Protect a plate after using it on a press.
7. Perform basic bindery operation:	A. Understand the basic operation of a folding machine. B. Perform collating operations. C. Identify different types of binding D perform the final trim of a publication
8. Screen Printing:	A. Expose images onto a sensitized transfer or directly onto the screen. B. Block the screen so ink will not pass through non-image areas. C. Mix inks for screen printing. D. Register a four-color process job. E. Print onto different types of substrates.
9. Caring for Screen Printing screens	A. Clean the screen after printing. B. Reclaim a used screen. C. Stretch a screen onto a frame. D. Utilize different types of screens and fabrics.