SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

ACADEMIC AFFAIRS

Course Number:	GRPH-131	Department:	GRAPHIC ARTS TECHNOLOGY	
Course Title:	Graphic Communications	Semester:	FallYear:2008	
Objectives/Competencies				
Course Objectives			Competencies	
1. The student will have understand history of the printing industry.	ling of the development and	printing Process. 1. Moveable T 2. Early Chine 3. Johannas G	ese Printing. utenberg. ne history of the development of the printing press. ress. Press.	
		process. 1. Offset Lithe 2. "Stone" Pri		

2. The student will know about the major printing technologies used today.	 A. Understand the essential differences between the 5 major type of printing processes. 1. Non-Impact. 2. Relief. 3. Planographic. 4. Intaglio. 	
	 B. Understand the Non-Impact printing process that are in use today: the Inkjet; Laser; and various Thermal processes. 1. Types of printing jobs printed with processes. 2. Specific printing devices. 3. Image quality. 4. Technical descriptions of the specific processes. 	
	 C. Understand the four conventional printing process employed today: Offset Lithography; Rotogravure; Screen Printing; and Flexography. 1. Printing Devices. 2. Types of Products. 3. Image Quality. 4. Image Carrier Preparation. 	
3. The student will understand the various processes involved in producing a successful printing job.	 A. Understand the unique characteristics and requirements of the printed image. 1. Spot Color 2. Duotone, Tri-tones, and Quad-tones 3. Trapping 4. Halftones and Screen Tints. B. Understand the various stages of a conventional printing job: Planning the job. Designing the job. 	
	 3. Prepress Preparation 4. Printing the job. 5. Finishing Processes. 	

4. The student will understand the basic nature of light and color in relation to 4 color process printing.	 A. Understand the basic of 4-color process printing. B. Understand the visible band of electromagnetic spectrum. C. Understanding the additive (RBG) and subtractive(CMY) primary color and the relationship they have to one another. 	
 5. The student will be aware of the influence electronics will have on the on the printing industry. 	 A. Understand the basic direction of various printing technologies: Electronic File Transfer. On Demand Printing. Direct Image Press. Computer to Plate. B. Understand the influence that the Internet will have on printing. 	
6. The student will know about quality evaluation requirements and methods used in the printing:	 A. Understand the specific devices used in quality evaluation for printed material: Densitometers. pH Meters. Colorimeters and Spectrophotometers. Micrometers. B. Understand the basic characteristics and requirements of image quality used in printing. Density. Resolution. Color Balance. 	