

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE
ACADEMIC AFFAIRS

Course Number: GAT-132 Class/Lect. Hours: 3 Lab Hours: 3 Credits: 4 Dept.: Graphic Com. & Photography

OBJECTIVES/COMPETENCIES

Course Objectives	Competencies
<ol style="list-style-type: none">1. Identify and list print markets and types of print businesses.2. List printing's ranking among other manufacturing industries.3. Identify and describe the major printing processes including Flexography, Offset Printing, Screen Printing, and Digital Printing.4. Identify the types of major companies that employ people with graphic communications skills.5. Interpreting print information.6. List, in order, a typical technical production flow from idea to finished product.7. Identify major printing industry associations.	<ol style="list-style-type: none">1. The types of print markets: Offset Lithography, Web-Print, Flexographic, and Screen Printing.2. Printing is ranked as the third largest manufacturing job in the world.3. Flexography deals with packaging printing. Offset Printing deals with all kinds of printing substrates. Screen Printing is printing mainly on clothing substrates. Digital Printing is with high quality equipment that is usually four color process work on different substrates.4. Commercial Printers, In-plant Printers, Book Printers, Trade Bin-deries, and Pre-Press Services.5. Reading job tickets and job jackets.6. Design process, Prepress services, press operation, and finishing operation.7. Printing Industries of America (PIA), Graphic Arts Technical Foundation (GATF), and Craftsman Printing Club.

Course Objectives	Competencies
<p>8. Printing copyright laws.</p> <p>(Safety in graphics)</p> <p>9. Safety in the press room. Identify location and describe proper use of fire safety equipment in the facility.</p> <p>10. Identify location of eye wash and first aid equipment.</p> <p>11. Read MSDS in the print shop.</p> <p>12. Describe the different types of protective safety equipment.</p> <p>13. Describe the type of cabinet you need to stores chemicals.</p> <p>(Digital Prepress)</p> <p>14. Various software applications and uses.</p> <p>15. Various types of removeable storage media</p> <p>16. What is the significance of PDF as it pertains to print industries.</p> <p>17. Identify various file formats and their extensions.</p> <p>18. What is the purpose of a folding dummy.</p> <p>(Digital File Output)</p> <p>19. What is trapping.</p> <p>20. What purpose of proofing.</p>	<p>8. Demonstrating what can and cannot be printed, and the different sizes that can be printed.</p> <p>9. Type of extinguisher to use in the print shop. They are A, B, C, and D extinguishers.</p> <p>10. Each lab has an eye wash and first aid kit to prevent injuries.</p> <p>11. Material Safety Data Sheet will identify who makes the product. What happens to you if you get the product on you. MSDS needs to be on file for 30 years.</p> <p>12. They are safety goggles, ear plugs, steel toe boots, and gloves.</p> <p>13. Usually chemicals are labeled, stored in either a yellow or red cabinet.</p> <p>14. PREPS is used for layout signatures. Other software are Quark and Adobe InDesign. Used for layout and trapping.</p> <p>15. External hard drives, USB flash drive, and Zip drive.</p> <p>16. Portable document format allows you to open without an application. It also compresses the file.</p> <p>17. They are TIFF, GIF, PSD, PICT, EPS, BMP, JPEG, and HTML.</p> <p>18. To make sure the pages are in proper order when lay it out and proper page number.</p> <p>19. When overlapping colors, and don't want any white space to show. You want to have perfect registration.</p>

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<p>21. Digital platemaking equipment for offset plates.</p> <p>(Press Operation)</p> <p>22. Safety press procedures.</p> <p>23. Basic press system.</p> <p>24. List quality control devices for press.</p>	<p>20. To try to match colors as perfect as possible to press copy, and to proof the job to make corrections.</p> <p>21. Polyesters are the new technology, eliminating film negatives. A less expensive way to use technology.</p> <p>22. No loose clothing and no jewelry. Make sure safety guards are working properly.</p> <p>23. They are form rollers, ductor, rollers, plate cylinders, blanket cylinder, ink fountain, and dampening system.</p> <p>24. Color bars, star target, and densitometer.</p>