

SYLLABUS

DIVISION: Business and Engineering Technology

REVISED: Summer 2014

CURRICULA IN WHICH COURSE IS TAUGHT: Graphic Imaging Technology

- **COURSE NUMBER AND TITLE:** PNT 260, Color Separation

CREDIT HOURS: 3 **HOURS/WK LEC:** 2 **HOURS/WK LAB:** 3 **LEC/LAB COMB:** 5

I. CATALOG DESCRIPTION:

PNT 260, Color Separation (3 cr.)

Introduces study of color theories and principles as they apply to process color printing. Provides classroom and laboratory experiences in dot gain, densitometry, creation and manipulation of color images and electronic color separation. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

II. RELATIONSHIP OF THE COURSE TO CURRICULA OBJECTIVES:

- Use graphic design software to complete laboratory projects.
- Demonstrate technical and skill competencies in color separation procedures.

III. REQUIRED BACKGROUND/PREREQUISITIES:

- Pre-requisite PNT 211 and PNT 221 or department approval.

IV. COURSE CONTENT:

Define color
Additive and subtractive color theory
Psychological factors
Viewing conditions
Filters, screen angles and density
Dot gain and its effect on reproduction
Paper and ink relationship to color
Color attributes; hue; saturation and brightness
Special effects and color corrections on desktop
Output/Input devices
Color proofing
Color measurement and lighting
Color management

V. THE FOLLOWING GENERAL EDUCATION OBJECTIVES WILL BE ADDRESSED IN THIS COURSE (Place X by all that apply)

Communications
 Critical Thinking

Personal Development
 Quantitative Reasoning

Cultural & Social Understanding
 Information Literacy

Scientific Reasoning

VI. LEARNER OUTCOMES**VII. EVALUATION**

<p>Learn the following as it relates to the printing industry</p> <ul style="list-style-type: none">Technical TerminologyDefine colorAdditive and subtractive color theoryPsychological factorsViewing conditionsColor attributes; hue; saturation and brightnessColor measurement and lighting	<p>Lab exercises Written test</p>
<p>Learn the following as it relates to the printing industry.</p> <ul style="list-style-type: none">Filters, screen angles and densityDot gain and its effect on reproductionColor managementSpecial effects and color corrections on desktopOutput/Input devices/ Color proofing	<p>Lab exercises Written test</p>
<p>Perform the following as it relates to the printing industry</p> <ul style="list-style-type: none">Plan and Create a 4 color separation	<p>Lab exercises</p>