I. INTRODUCTION

A. A study of the graphic arts industry, including the history of printing, techniques involved in the production and distribution of printed materials, the kinds of printing industries and printing terminology and identify career opportunities in graphics and printing fields.

B. Introduction to Graphic Arts and Printing (GRPH 1305) is a required course for the completion of a two year Associate of Applied Science degree in Graphics and Printing or Level I and II Certificate of Completion in the Graphics and Printing Technology Program.

C. This course is occupationally related and serves as a preparation for a career in the Graphics and Printing field.

D. Prerequisites: None

E. Alphanumeric coding used throughout this module book denotes integration of SCANS occupational competencies (C1, etc.) and Foundation skills (F1, etc.).

II. LEARNING OUTCOMES

Upon successful completion of this course, Introduction to Graphic Arts and Printing, the student will:

A. Describe procedures in the printing industry; use terminology of the printing industry in written and oral presentations and develop interpersonal skills. (F3, 4)

B. Analyze procedures in the printing plant, such as safety and operations of printing equipment. (C5, 6, 7, 18, 19)

C. Use terminology of the printing industry in written and oral presentations. (F2, 6)

D. Develop interpersonal skills. (C9, 10, 11, 12, 13, 14)

E. Identify printing equipment. (C18)

F. Name the classes of fires. (C5, 7)

G. Name OSHA safety colors and explain their use. (C5, 7)

H. Explain legal restrictions as they apply to printing trades. (C5, 7)

I. Demonstrate proper lifting techniques. (C19)

J. Explain the characteristics of paper and how it is identified. (C5, 7)

K. Use mathematics to calculate paper cuts and the amount of paper needed for a printing job. (F3, 4)

L. Explain the basic system of measurements used for composition and layout and calculate the amount of space for copy fitting. (F3, 4)
M. Define common terms used in desktop publishing. (C7)
N. Explain and use hardware system components. (C18, 19)
O. Differentiate between software applications used in desktop publishing and explain the use of each. (C15)
P. Properly and safely use and maintain tools and equipment. (C20)
Q. Practice shop safety. (F12)
R. Design a plan to accomplish a printing project that includes a budget, organization/work flow chart and selection of personnel for the project. (C1, 2, 3, 4) (F2, 3, 4, 7, 10)

III. INSTRUCTIONAL MATERIALS

A. The instructional materials identified for this course are viewable through www.ctcd.edu/books
B. Supplemental Reading: As assigned by the Instructor.
C. Audio-visual aids: See resource list at end of this module book.
D. Other instructional material: As selected by the Instructor.

IV. COURSE REQUIREMENTS

A. This course is being taught in a self-paced mode. It differs from the traditional college course in that you are allowed to work on your own and at your own speed within limitation. This course is 96 clock hours in length. The student may set his/her own schedule within the time frame the course is offered. You must attend class on the days and at the times you selected when you enrolled in the course.

You will have an assigned Instructor. If at any time you do not understand a reading assignment, audio visual presentation or lab work, ask your Instructor for assistance. He is there for you!

This module book is designed to inform you of the sequence in which this course will be presented. You must follow this sequence and you must do what the module book says. It contains reading assignments, written assignments, audio visual presentations and lab assignments that you must complete or watch. Written assignments will be turned in as directed by the Instructor. Late assignments will not be accepted. You must let your Instructor know when you are ready to do a learning activity, performance exam or take a scheduled exam.
B. The student must take notes when viewing filmstrips, slides, or videos. Exams may be taken from audio visual aids, reading and lab assignments. If Instructor notes or handouts are given to you, you must study them; exams may be taken from these notes also.

C. The Instructor may give written assignments or “pop” quizzes as he deems necessary.

D. Performance Exams:
Each student will clean all tools and equipment that they use and properly store them and clean their work area after the completion of each task.

Certificate Students: All lab work will be completed on an individual basis. The student will receive “pass” or “fail” on the task. Students who fail to complete a task correctly to industry standards must repeat the task. The Instructor will date and initial each performance exam task as it is satisfactorily completed. NOTE: Students who have selected the alpha-numeric grading system will be graded as outlined for degree students (see below).

Degree Students: Laboratory tasks (performance exam) will be completed on an individual basis except when limited by tools and/or materials. Each performance exam is worth a maximum of 7.1 points. The maximum lab grade is 100 points. The Instructor will deduct points from each lab task score for failure to follow safety precautions and/or a failure to complete the project to industry standards. The Instructor will date, initial, and post the points earned for each performance exam as it is completed.

The following is part of the course requirements: Each student will assist in lab clean-up at the close of the evening classes and will assist in unloading and storing supply shipments. Failure to do so will result in a failure to complete all course requirements and the student could receive an “F” or “N” for the course.

There will be four (4) written examinations in this course (3 module/unit exams and an exit exam). Written exams must be completed before taking the performance exam for each module. The exit exam is a comprehensive exam that covers the entire course. Certificate students must score 70% on the exit exam. Certificate students will be allowed to take the exit exam a maximum of three (3) times. Failure to achieve a 70% score on the exit exam in three (3) tries will result in an "N" for the course and the student must retake the course. Degree Students should refer to the "grading" section of this outline for guidance.

E. The student must complete the written assignments to receive a grade. Written assignments for each unit will be turned into the Instructor prior to starting performance exams for that module. Degree students must complete reading and written assignments at home.
F. If you have special needs because of learning disabilities or other kinds of disabilities, please feel free to discuss this with the Instructor. The Instructor will attempt to meet your needs with the assistance of counselors, tutors (Project Mainstream), and the assistance of the Disabilities Services Office. Program/course integrity will not be sacrificed. Students must meet all course requirements.

GRADING

Certificate Students: Students will be graded using the standard Skills Center "Pass-Fail" system used for self-paced programs. To satisfactorily complete the written exams, the student must score 80% on tests (except the exit exam, 70%). Students who fail to make the 80% on any exam (except the exit exam) must retake the exam. The current test re-take policy will apply to all certificate students. The student must satisfactory complete all written and performance exams to receive a passing grade ("P").

Degree Students: Students will be graded using an "alpha-numeric" system as outlined below. Grades made on performance and written exams will be the grade received, including the exit exam. Students will not be allowed to retake written exams or redo performance exams.

A. Written exams: Average of written exams will count as 40% of the final grade.

B. Completion of written assignments/activities will count as 10% of the student’s final grade.

C. Performance Exams (Lab work) will count as 50% of the final grade.

D. Grade Computations: (Example)
   Written Exam Scores: (There will be 4 written exams)
   Exam 1  90
   Exam 2  80
   Exam 3  70
   240 divided by 3 = 80 (Average Written Exams)

   Written Exam Score Average  80 x 40% = 32 points
   Written Assignments        100 x 10%  = 10 points
   Performance Exam Score      80 x 50%  = 40 points
   Total =                     82 points = B
V. NOTES AND ADDITIONAL INSTRUCTIONS FROM THE COURSE INSTRUCTOR

A. **Course Withdrawal:** It is the student’s responsibility to officially withdraw from a course if circumstances prevent attendance. Any student who desires to, or must, officially withdraw from a course after the first scheduled class meeting must file a Central Texas College Application for Withdrawal (CTC Form 59). The withdrawal form must be signed by the student.

A student who officially withdraws will be awarded the grade of “W” provided the student’s attendance and academic performance are satisfactory at the time of official withdrawal. Students must file a withdrawal application with the College before they may be considered for withdrawal.

A student may not withdraw from a class for which the Instructor has previously issued the student a grade of “F,” “N,” “FN,” or “XN” for nonattendance.

B. **Administrative Withdrawal:** An administrative withdrawal may be initiated when the student fails to meet College attendance requirements. The Instructor will assign the appropriate grade on CTC Form 59 for submission to the registrar.

C. **Incomplete Grade:** The College catalog states, “An incomplete grade may be given in those cases where the student has completed the majority of the coursework but, because of personal illness, death in the immediate family, or military orders, the student is unable to complete the requirements for a course . . .” Prior approval from the Instructor is required before the grade of “I” for Incomplete is recorded. A student who merely fails to show for the final examination will receive a zero for the final and an “F” for the course.

D. **Cellular Phones and Beepers:** Cellular phones and beepers will be turned off while the student is in the classroom or laboratory.

E. **Americans With Disabilities Act (ADA):** Disability Support Services provides services to students who have appropriate documentation of a disability. Students requiring accommodations for class are responsible for contacting the Office of Disability Support Services (DSS) located on the central campus. This service is available to all students, regardless of location. Explore the website at [www.ctcd.edu/disability-support](http://www.ctcd.edu/disability-support) for further information. Reasonable accommodations will be given in accordance with the federal and state laws through the DSS office.

F. **Instructor Discretion:** The Instructor reserves the right of final decision in course requirements.

G. **Civility:** Individuals are expected to be cognizant of what a constructive educational experience is and respectful of those participating in a learning environment. Failure to do so can result in disciplinary action up to and including expulsion.
H. Absence from the class may be unavoidable in some situations. These include illness, military/civilian job requirements, or a death in the immediate family. Documentation is required in the case of excused absences for job requirements. Excuses will be on company letterhead stationary signed by the immediate supervisor stating the reason for the absence for civilian jobs. Excuses for military personnel must be signed by the 1st Sergeant or the Company Commander. **NOTE:** This does not apply to VA, VA/Voc, or Financial Aid students. There are no excused absences for these students. Talk to your funding agency if you have questions.

VI. **FIRST CLASS MEETING**

A. The Instructor will introduce the course and show the student the textbook.

The Instructor will verify the class roster/enrollment form:
1. Call roll
2. Have each student verify the spelling of his/her name and the social security number by initialing the class roster/enrollment form.
   **NOTE:** When a student’s name does not appear on the degree program class roster, they must bring it to the attention of the Instructor and must present the Instructor with CTC Form 29 (Add/Drop Slip) reflecting that he/she has properly registered for the course.

The Instructor will have the student read and sign the course requirements sheet.

The Instructor will discuss the following topics with the student:
- Course requirements, objectives and how the course works
- Policy letters
- Student handouts
- Lab sheet and lab work (Learning activities, Performance exams, competency profile)
- Exam, grading, reading and written assignments
- Absences
- Shop/classroom cleanup/tools
- Dress code
- Parking
- Sign-in computer
- Course outline/fact sheets/student handouts
- Hazardous communications/MSDS information
- Shop safety
COURSE OUTLINE OR SEQUENCE:

I. Module 1405-01: Tools, Equipment, Safety and Legal Restrictions

A. Time: 25 Clock Hours

B. Module Learning Outcomes: Upon completion of this module the student will:

1. Analyze procedures in the printing plant, such as safety and operations of printing equipment. (C5, 6, 7, 18, 19)
2. Use terminology of the printing industry in written and oral presentations. (F2, 6)
3. Develop interpersonal skills. (C9, 10, 11, 12, 13, 14)
4. Identify printing equipment. (C18)
5. Name the classes of fires. (C5, 7)
6. Name OSHA safety colors and explain their use. (C5, 7)
7. Explain legal restrictions as they apply to printing trades. (C5, 7)
8. Demonstrate proper lifting techniques. (C19)
9. Properly and safely use and maintain tools and equipment. (C20)
10. Practice shop safety. (F12)

The overriding consideration in performance of any job should always be safety. As you begin your work in the Graphics and Printing Technology program you will learn some of the more basic safety rules. As you continue in the program you will be constantly reminded of safety rules and procedures.

C. Read Chapters 1 and 2 in Resource 023R to learn about the theory of printing, careers in printing, safety and legal restrictions and answer the questions in the workbook (Resource 023A-R) that pertain to these chapters.

D. Read Factsheet 1405-01-01 to learn about hand tools, safety, fire safety, and safety colors.

E. See your Instructor and ask him if there is any additional information that you should read or see that pertains to this module.

F. Review for Module 1405-01 Written Exam: Study all previous assignments in this module. See your Instructor and ask him to explain any area that you do not understand.

G. Module 1405-01 Written Exam: (See your Instructor) To master the written exam, you must correctly answer 20 of 25 (80%) questions. You may not proceed until you have satisfactorily completed the exam.

H. Critique Module 1405-01 Written Exam: (See your Instructor)
I. Performance Exam Module1405-01: Refer to the Laboratory Learning Activities (Lab Sheet) in this module book and complete the Performance exam for this module. (See your Instructor)

J. You should complete this module by the end of the 25th clock hour.

II. Module 1405-02: Measurements

A. Time: 50 Clock Hours

B. Module Learning Outcomes: Upon completion of this module the student will:

1. Explain the characteristics of paper and how it is identified. (C5, 7)

C. Read Chapter 3 in Resource 023R to learn about papers, characteristics, and math calculations and answer the questions in the workbook (Resource 023A-R) that pertain to these chapters.

D. Read Resources 16R to learn about getting started, making choices, working with letterheads, brochures, business cards, packaging paper, points, picas and inches.

E. Read Factsheet 1405-02-01 to learn about paper.

F. Refer to the Laboratory Learning Activities (Lab Sheet) in this module book and complete the Learning Activities for this module. (See your Instructor)

G. See your Instructor and ask him if there is any additional information that you should read or see that pertains to this module.

H. Review for Module 1405-02 Written Exam: Study all previous assignments in this module. See your Instructor and ask him to explain any area that you do not understand.

I. Module 1405-02 Written Exam: (See your Instructor) To master the written exam, you must answer 20 of 25 (80%) questions. You may not proceed until you have satisfactorily completed the exam.

J. Critique Module 1405-02 Written Exam: (See your Instructor)

K. Performance Exam 1405-02: Refer to the Laboratory Learning Activities (Lab Sheet) in this module book and complete the Performance exam for this module. (See your Instructor)

L. You should complete this module by the end of the 50th clock hour.
III.  Module 1405-03: Paper

A.  Time: 25 Clock Hours

B.  Module Objectives: Upon completion of this module the student should be able to:

1. Explain the characteristics of paper and how it is identified.

C.  Read Chapters 23-24 in Resource 023R to learn about papers, characteristics, and answer the questions in the workbook (Resource 023A-R) that pertain to these chapters.

D.  Read Factsheet 1405-02-01 to learn about paper.

E.  Refer to the Laboratory Learning Activities (Lab Sheet) in this module book and complete the Learning Activities for this module. (See your Instructor).

F.  See your Instructor and ask him if there is any additional information that you should read or see that pertains to this module.

G.  Review for Module 1405-03 Written Exam: Study all previous assignments in this module. See your Instructor and ask him to explain any area that you do not understand.

H.  Module 1405-03 Written Exam: (See your Instructor) to master the written exam. You must answer 20 of 25 (80%) questions. You may not proceed until you have satisfactorily completed the exam.

I.  Critique Module 1405-03 Written Exam: (See your Instructor)

J.  Performance Exam 1405-03: Refer to the Laboratory Learning Activities (Lab Sheet) in this module book and complete the Performance exam for this module. (See your Instructor)

K.  You should complete this module by the end of the 75th clock hour.

III.  Module 1405-04: Exit Exam & Hands On

A.  Time: 6 Clock Hours

B.  Module Objectives: Upon completion of this module the student should be able to:

1.  Use basic thinking skills and demonstrate personal qualities and work practices used in the work place.
2.  Complete the Exit Exam.

C.  Review for Exit Exam: Review all previous assignments.
D. See your Instructor and ask him to explain anything that you do not understand about print shop fundamentals.

E. Module 1405-04 Written (Exit) Exam: (See your Instructor). You must complete this exam by the end of the 96th clock hour.

F. Critique Module 1405-04 Written (Exit) Exam: (See your Instructor).

G. Complete all worksheets in the back of this module book (1405-02-01 thru 1405-04-04) plus to work packets from your Instructor.

H. End of the Course Critique and enrollment in the next course in this program. (See your Instructor).