I. INTRODUCTION

A. A study of letterforms and typographic concepts as elements of graphic communication. Emphasis on developing a current, practical typographic knowledge based on industry standards.

B. Digital Imaging I (ARTC 1302) is a required course for the completion of a two year Associate of Applied Science degree in Graphics and Printing or a Level I Certificate of Completion Graphic Design 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: This course has prerequisites of ARTC 2313 or consent of the Dept. Chair.

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, Press Operations I, the student will:

A. Distinguish between analog form and digital form. (C3,8,9,12,18,19) (F1,5,8)

B. State the functions of word processing, page composition, and illustration programs. (C3,6,7) (F8,9,10)

C. Explain the function of PDLs. (C3,6) (F8,9)

D. Summarize the functions of Print Production Format (PPF) and Job Definition Format (JDF). (C3,6) (F8,9)

E. Cite the definition of preflighting and explain its importance to prepress production. (C3,6,9) F8,9

September 2013
F. Describe the basic creation, transmission, and output of electronic media. (C6,8,19) (F8,9,10)

G. List proofing methods used in the printing industry. (C8,18,19) (F8,9,10)

H. Identify the basic functions of raster image processors (RIPs), imagesetters, and platesetters. (C8,18) (F8,9,10)

I. Define digital printing. (C8,18,19) (F9,10)

III. INSTRUCTIONAL MATERIALS

A. Instructional materials for this course may be found at 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 a “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 16.1 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.

E. 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.

F. There will be three (3) written examinations in this course (2 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.

G. 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.

H. Disability Support Services provide 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.

### 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 retake policy will apply to all certificate students. The student must satisfactorily 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 3 written exams)
   
<table>
<thead>
<tr>
<th>Exam</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>90</td>
</tr>
<tr>
<td>Exam 2</td>
<td>80</td>
</tr>
<tr>
<td>Exam 3</td>
<td>70</td>
</tr>
</tbody>
</table>

   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): Students requiring accommodations for disabilities are responsible for notifying the Instructor. Reasonable accommodations will be granted in full compliance with federal and state law and Central Texas College policy.

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.

B. 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.

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

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

I. Module 1302-01: Introduction

A. Time: 25 Clock Hours

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

1. Distinguish between analog form and digital form. (C3,8,9,12,18,19)
2. State the functions of word processing, page composition, and illustration programs. (F1,5,8)
3. Explain the functions of PDLs. (C3,6,7) (F8,9,10)
4. Summarize the functions of Print Production Format (PPF) and Job Definition Format (JDF). (C3,6,7) (F8,9)
5. Practice shop safety. (F12)

C. Read Chapter 8 in Resource 23R to learn about Digital Imaging I.

D. View Audio Visuals: None.

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 1302-01 Written Exam: Study all previous assignments in this module. See your instructor and ask him to explain any area that you do not understand.

H. Module 1302-01 Written Exam: (See your Instructor). To master the written exam, you must correctly answer 20 of 20 (80%) questions. You may not proceed until you have satisfactorily completed the exam.

I. Critique Module 1302-01 Written Exam: (See your Instructor)

J. Performance Exam Module 1302-01: 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 25th clock hour.
II. Module 1302-02: Digital Imaging I

A. Time: 25 Clock Hours

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

1. Cite the definition of preflighting and explain its importance to prepress production. (C8, 9, 18) (F8, 9, 10)
2. Describe the basic creation, transmission, and output of electronic media. (C3, 6, 7) (F8, 9, 10)
3. List proofing methods used in the printing industry. (C6, 8) (F1, 8, 9)
4. Identify the basic functions of raster image processors (RIPs), imagesetters, and platesetters. (C6, 8) (F1, 8, 9)
5. Define digital printing. (C6, 8, 9) (F1, 5, 8, 9)

C. Review Chapter 8 in Resource 023R to learn about digital imaging.

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

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 1302-02 Written Exam: Study all previous assignments in this module. See your Instructor and ask him to explain any area that you do not understand.

G. Module 1302-02 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 1302-02 Written Exam: (See your Instructor)

I. Performance Exam Module 1302-02: 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 50th clock hour.
III. Module 1302-03 Exit Exam

A. Time: 46 Clock Hours

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

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 digital imaging.

E. Module 1302-03 Written (Exit) Exam: (See your Instructor)

F. Critique Module 1302-03 Written (Exit) Exam: (See your Instructor)

G. Complete the Hands-on as directed by the Instructor

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