ART 291: Digital Prepress  
SPRING 2005

Dale Doubleday, Instructor  
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CALENDAR
Section 0332 Room F201  
Mondays and Wednesdays  
1/17 through 5/9  
Time: 12 noon – 2:45 PM  
PORTFOLIO is due on May 4th.  
FINAL EXAM is on May 9th.  
Plan to attend and work during every class.

THE COURSE
This course is intended to provide information about  
the multiple elements of digital prepress. It provides  
a basic foundation of prepress concepts including a  
survey of the printing industry, industry standards,  
and the electronic page layout.  
Prerequisites: ART 100 or permission of the  
instructor.

Course Competencies:
1. Analyze printed material in reference to type of  
   printing process.  
2. Demonstrate electronic page layout techniques.  
3. Define the steps in the prepress workflow.  
4. Use and demonstrate different characteristics  
of typography.  
5. Edit text and graphics in preparation for printing.  
6. Prepare four color process documents that are  
   ready for electronic press.  
7. Create and edit process colors.  
8. Design camera ready documents that include  
   scaling, halftones, and multi-color separations.

TEXT
REQUIRED: The Pocket Pal Graphic Arts  
Production Handbook from International Paper 18th Ed.

COURSE REQUIREMENTS
1. Participate in all class activities.  
2. Complete TUTORIALS and tests.  
3. Complete outside projects.  
4. Turn in Portfolio with completed  
   assignments/notes, etc.  
5. Take Exam.

GRADING
Each student will be evaluated on the extent of:  
1. Participation in all activities/presentations/  
demonstrations/critiques  
2. Completion of reading and writing assignments  
3. Application of ideas presented in the course to  
   activities in class and class original assignments  
4. Submission of all assigned projects in a portfolio  
   (individual projects will be graded on their  
   creativity and use of artistic concepts)  
5. Results of exams  
TOTAL GRADE is determined by:  
Exam scores = 30%  
Original Projects and items 1, 2, 3, 4 above = 70%

SPECIAL NOTES: This instructor will automatically  
withdraw students who are not attending classes  
and/or after two unexcused absences.  

This syllabus is subject to additions, deletions, and  
changes dependent upon student and course  
needs which may vary from semester to semester.

ADDITIONAL REQUIREMENTS
In addition to the required text, it is  
necessary for students to have the following items:  
1. One or more Mac ZIP disk  
2. Drawing materials (sketchbook, pencils)  
3. Portfolio materials (binder, page protectors, etc.)

Disability Support Services
Location: Learning Center Building  
Telephone: (602) 285-7477 V/TDD

The Disability Support Services (DSS) Office coordinates  
services which will ensure equal access to college programs  
for students with disabilities. Services include interpreting  
for the deaf/hard of hearing, notetaking, reading, scribing,  
adaptive technology, testing accommodations, alternative  
text formatting, and special seating arrangements. Some  
classroom accommodations such as interpreting services,  
audio taped texts and handouts, enlarged print and Braille  
materials require preparation time. For this reason, students  
with disabilities are encouraged to contact the DSS Office  
prior to registration and provide us with the necessary  
documentation. All disability-related information provided to  
DSS remains confidential.
ART 291: Digital Prepress
SPRING 2005

SCHEDULE:

Week of

1/17  No Class Monday – MLK Day
1/19  Introduction/Overview/Planning
HW:  Buy books, ZIP disk
      Read Preflight Book pp. 1 -46

1/24  Quark review
      Simple graphics, text paths, multi-page documents, style sheets
      Complete Flyer Exercise
HW:  Read Pocket Pal: HISTORY pp. 8-22

1/31  Discussion: History of printing industry
      Wed. Quiz on History
HW:  Read Pocket Pal: Intro to Printing Processes pp. 21 – 34 AND Prepress pp. 35 - 73

2/7   Discussion: The Printing Process
      Types of printing, the technology, and when they are used. Imaging – Color theory and printing. Reproducing color, subtractive/process color, tint screens, spot colors, separation, trapping, dot gain, color correction.
      Wed. Quiz on color
      Begin work on Currency Project (SPOT COLOR)

2/14  Work on Currency Project

2/21  No Class Monday  _ Pres. Day
      Currency Project due mid class Wed.
      Critique Currency Project

2/28  Discussion: Software programs,
      Reproducing Graphics and Photos resolution, bitmaps, scanning, vectors, file formats, fonts
HW:  Read Pocket Pal pp. 132 – 170

3/7   Discussion: Lithography
      The four color process, how the press works, choosing the right paper
      Quiz on Lithography
      Preflight Book CH. 7
      Begin Project 2 – 4 Color Brochure

3/14  SPRING BREAK

3/21  Work on Project 2
      Project 2 due end of Wed. class

3/28  Critique Project 2
      Select groups and subject for report.
      Report Proposal Due. Group work on reports

4/4   Work on report - Lab Periods (2)

      Preflight Book CH. 8

4/18  Discussion: Preflight
      Begin Final Project
      Quiz on Preflight
      Work on Final Project

4/25  Open labs to work on final project

5/2   Final Lab to complete all work.
      Final Project and Portfolio due end of class Wed. 5/4

5/9   FINAL EXAM and Portfolio critique.

Outside Assignment: Printed material collecting, evaluating, and analysis. Approximately four class discussions will take place, dates to be announced.

Research Project on a specific area of the printing industry. This will be a group project and include a written report and presentation in April

ART 291: Digital Prepress
SPRING 2005
Zip Disk of all work. You must include Quark files, Image files, and Fonts for each project.

Printed work: 3 Ring book of ALL work. Include 3 color prints and the remainder in black and white. You must have a title page with your name, class, and date. Present work clean and professionally.

### MCCCDD Official Course Outline:

**Digital Prepress**

I. Digital Prepress Processes
   - Traditional processes
   - Computer desktop techniques

II. Digital Prepress Fundamentals
   - Hardware
   - Software
   - Hardcopy

III. Color Printing
   - Spot color
   - Registration marks

IV. Prepress Concepts
   - Trapping
   - Stripping

V. Single Page Flyer
   - Spot color
   - Registration marks
   - Trapping
   - Color separation

VI. Multi-page Publication (Newsletter)
   - Four-color separation
     1. Spreads
     2. Chokes
     3. Registration marks
   - Style specifications
   - Art work
   - Graphics manipulation
   - Scaling
   - Halftones
   - Multi-color separations
   - Hardcopy

VII. Multi-page Publication (Brochure)
   - Stripping
   - Style specifications
   - Art work
   - Scaling
   - Halftones
   - Multi-color separations

VIII. Magazine
   - Signatures
   - Impositions
   - Downloading graphics and text
   - Art work
   - Graphics manipulation
   - Scaling
   - Halftone
   - Multi-color separations
   - Hardcopy

IX. Evaluation
   - Trapping concepts
   - Imposition concepts

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### Assignment Schedule

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Date Due</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>Designing with spot color</td>
<td>2/23</td>
<td>100</td>
</tr>
<tr>
<td>Four color lithograph</td>
<td>3/23</td>
<td>100</td>
</tr>
<tr>
<td>Report/presentation</td>
<td>4/13</td>
<td>150</td>
</tr>
<tr>
<td>Final Project (TBA)</td>
<td>5/4</td>
<td>150</td>
</tr>
<tr>
<td>Portfolio</td>
<td>5/4</td>
<td>100</td>
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<tr>
<td>Add Analysis</td>
<td>Monthly</td>
<td>100</td>
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<tr>
<td><strong>Total</strong></td>
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<td>1000</td>
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### Grading:

- 90 – 100% = A
- 80 – 89% = B
- 70 – 79% = C
- 65 – 69 % = D
- Below 65% = F