

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

X Transfer Course X A.A. Degree applicable course
(check all that apply)

COURSE NUMBER AND TITLE: Art 241, Computer Graphics

UNIT VALUE: 3

MINIMUM NUMBER OF SEMESTER HOURS: 96

BASIC SKILLS REQUIREMENTS: Appropriate language and computation skills

ENTRANCE REQUIREMENTS

PREREQUISITE: None

COREQUISITE: None

RECOMMENDED PREPARATION: Art 240 Introduction to Computers for Art

SCOPE OF COURSE: Two-dimensional graphics applications of the computer using Adobe Photoshop software. Explore relationship between computer media and traditional art media. Digital image processing and storage, digital painting methods and layout generation. Technical issues pertaining to generation of digital art.

SPECIFIC COURSE OBJECTIVES:

The student will:

1. Analyze interrelationships between the computer and traditional art media.
2. Identify methods of art creation using Adobe Photoshop.
3. Solve novel problems using digital painting methods.
4. Evaluate digital image storage solutions.
5. Explain technical issues pertaining to generation of digital art.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Analysis of traditional media vs. digital media
 - A. Design
 - B. Layout
 - C. Typography
 1. Vector based type
 2. Pixel based type

D. Color

1. Transmissive vs. reflective light
2. RGB color space
3. CMYK color space

II. Adobe Photoshop

A. Interface

1. Tool palettes
2. Menus
3. Tablet/stylus input

B. File formats

1. Native format
2. Export formats

C. Image acquisition

1. Direct input
2. Scanning
 - a. 2-dimensional materials
 - b. 3-dimensional objects
 - c. textures
3. Digital camera
4. Stock photography

III. Image generation

- A. Self portrait project
- B. Research-based project
- C. Observation-based project
- D. Toy package design project
- E. Typographic project

IV. Storage and backup solutions

A. Floppy media

B. High density media

1. Zip media
2. Jaz media
3. CD-R media

C. Back-up strategies

V. Technical issues

A. Scanning and resolution

B. Memory management

C. Fonts

D. Output options

1. Laser output
2. Inkjet output
3. Film recorder
4. Film output
 - a. Service bureau file preparation
 - b. Halftone/Line screens
 - c. Resolution

5. Iris output

6. File formats

E. Job management

REQUIRED READING:

None

SUGGESTED READING:

Giordan, Daniel. Dynamic Photoshop, New York: M & T Books, 1997.

Haynes, Barry and Crumpler, Wendy. Photoshop Artistry, San Francisco, CA: Sybex, 1995.

REQUIRED WRITING:

The student will write a one page evaluation of another students project.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.

Preliminary research for projects will be completed at library and other off-campus locations. Students will complete projects during assigned computer time in class and during scheduled lab hours.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

lecture

laboratory

lecture-laboratory combination

directed study

DISTANCE LEARNING:

This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.

Yes No

If yes, check all that apply:

Television Course (Video one-way, e.g. ITV, video cassette, etc.)

Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)

Two-Way Video Conferencing (Two-way interactive video and audio)

One-Way Video Conferencing (One-way interactive video and two-way interactive audio)

Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

GRADING POLICY AND STANDARDS (include methods of determining whether the stated objectives have been met by students):

Evaluation is based on individual projects and a final project. Participation and personal growth are also factors.

Projects: 50%

Creative progress in course: 20%

Participation: 10%
Final project: 20%

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

Yes No Number of times course may be taken for credit: 2

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable:

(A) Skill or proficiencies are enhanced by supervised repetition and practice within class periods.

CONTACT PERSON:

Jay Schultz

SIGNATURES ON FILE