

## Computer Graphics

### **COURSE DESCRIPTION**

Use industry software to create digital graphics: vector graphic illustration to solve visual arts problems by implementing expressive aspects of line, shape, value and form; raster graphic image editing to manipulate and apply artistic effects to digital photographs and art. To meet UC Visual and Performing Arts requirements, students must take the class for two semesters.

### **COURSE TOPICS**

- Orientation and evaluation
- Desktop management
- Art fundamentals
- Elements of art
- Composition
- Development of visual literacy skills
- Creative problem solving
- Basic elements of computer graphics
- Basic image manipulation
- Image resources
- Vector-graphic skills
- Raster-graphic skills
- Employment literacy
- Personal skills related to employment
- Interpersonal skills and group dynamics
- Thinking and problem solving skills
- Communication skills

### **EXPECTATIONS FOR STUDENTS (ESs)**

Upon completion of this course, students will be able to:

#### **Technical Skills**

- Demonstrate awareness of industry standards.
- Organize and manage artist tools and materials on the computer; maintain files.
- Demonstrate understanding of layout/composition, balance, contrast, and other elements.
- Write a clear artist statement of one's original work.
- Use modes and channels, bit depth, hue, saturation and brightness.
- Manipulate image size and resolution; adjust color and tone; manage curves.
- Research and utilize a variety of resources; discuss and comply with copyright laws.
- Manipulate and apply artistic effects to digital photographs and art.

#### **Personal and Professional Skills**

- Discuss examples of successful graphic design pieces in terms of specific elements of art.
- Solve art problems in terms of line, shape, value, form, texture, color, and space.
- Discuss the creative solution of concept development from thumbnails to final design.
- Solve visual art problems using vector graphic illustration software.

- Demonstrate appropriate work ethics and professional demeanor as demanded by the industry.
- Demonstrate the ability to work independently or as a member of a team.
- Listen attentively, follow directions and effectively relay directions to others.

### **Career Planning Skills**

- Research career opportunities; establish educational and career goals related to the industry.
- Research employment opportunities; prepare portfolio of work samples, a completed application for employment, and a resume.