

**OAKTON COMMUNITY COLLEGE  
GENERIC COURSE SYLLABUS**

I.	<u>Course Prefix</u>	<u>Course Number</u>	<u>Course Name</u>	<u>Credit:</u>	<u>Lecture</u>	<u>Lab</u>
	ART	270	3D Illustration	3	0	6

II. Prerequisites:

Art 250

III. Course (catalog) Description:

This course covers the fundamentals of 3D image making. Traditional use of media and compositional skills are taught in combination with the technical material necessary to produce high-end illustrative art. Special emphasis is put on landscape, seascape and urbanscape imaging. Final output will involve large size printing.

IV. Learning Objectives:

1. To understand the fundamental concepts and tools of 3d image making.
2. To have the ability to make large prints
3. To have the ability to produce scenery through the use of rendering technology
4. To understand fundamental concepts of composition in the production of landscapes, seascapes and urbanscapes.
5. To understand the basic visual elements of a picture and how they relate to the perception of an image.

V. Academic Integrity:

The very nature of higher education requires that students adhere to accepted standards of academic integrity. Therefore, Oakton Community College has adopted a Code of Academic Conduct and a Statement of Student Academic Integrity. These may be found in the Student Handbook. You may also find a summary of the Code of Academic Conduct in the College Catalog. Among the violations of academic integrity listed and defined are: cheating, plagiarism, falsification and fabrication, abuse of academic materials, complicity in academic dishonesty, falsification of records and official documents, personal misrepresentation and proxy, and bribes, favors, and threats.

It is the student's responsibility to be aware of behaviors that constitute academic dishonesty.

Pursuant to the due process guarantees contained in the Policy and Procedures on Student Academic Integrity, the minimum punishment for the first offense for a student found in violation of the standards of academic integrity is failure in the assignment. In addition, a disciplinary record will be established and kept on file in the office of the Vice President for Student Affairs for a period of 3 years.

## VI Outline of Topics

- I. Fundamentals of 3D
  - A. Co-ordinates
  - B. Moving objects in 3d space
  - C. Size and scale
  - D. Distance and depth
- II. Tools of 3D
  - A. Software
  - B. Output and input
  - C. Hardware
- III. Model making
  - A. Spline
  - B. Vertex
  - C. Blobs and sculpting
  - D. Primitives
  - E. Boolean
  - F. Terrain editor
  - G. Photography
  - H. Importing
  - I. Grouping
  - J. Infinite plane
- IV. Materials and textures
  - A. Pre-sets
    - a. Clouds and fog
    - b. Water and liquids
    - c. Rocks and stones
    - d. Glass
    - e. Metal
  - B. Volumetric shading
  - C. Elements of a material
    - a. Diffuse
    - b. Secularity
    - c. Reflection
    - d. Refraction
    - e. Bump
    - f. Transparency
- V. Lighting
  - A. Spot
  - B. Flood
  - C. Effects and key lighting
- VI. Rendering
  - A. Resolution
  - B. Size
  - C. Types of rendering

## VII. Basics of scenery

- A. Landscape perspective
  - B. Focal point
  - C. Flow
  - D. Comprehension factors
  - E. Emotional response
  - F. Base line
  - G. “Take up” line
  - H. Cross sectionary
  - I. Depth and distance
  - J. Contrasting values
- VIII. Trees and Foliage
- A. Tree trunks
  - B. Leaves
  - C. Image hose and repetition
- IX. Rocks and Mountains
- A. Edges and surfaces
  - B. Patterns in rocks
  - C. Mountain ranges,peaks and abstractions
- X. Clouds and skies
- A. Formation and type of clouds
  - B. Sunsets and sunrise
  - C. Dramatic usage
  - D. Moonlight and night
  - E. Storm and wind
- XI. Water, rivers, oceans and waterfalls
- A. Reflections and transparency
  - B. Night
  - C. Buildings and objects
  - D. Waves
  - E. Snow and ice
- XII. Structures and objects
- A. Houses
  - B. People
  - C. Different approaches to structural objects.

VII. Methods of Instruction:

This course will be taught using a combination of lecture, demonstration, presentation and hands on studio time at the College’s workstations.

VIII. Course Practices Required:

1. Attend all classes and lab sessions
2. Attend all critiques with completed work
3. Complete all artwork by due date
4. Maintain professional attitude

IX. Instructional Materials

CDR recordable disks  
Zip disk  
16 x 20 Ink jet paper  
Required book: "Bryce 4" by Shamms Mortier

X. Methods of Evaluation:

The final grade will be based upon the following elements and their weights

1. 3 Quizzes 25%
2. 3 Critiques 25%
3. Final test 25%
4. Final critique 25%

Quizzes will be administered at the critiques. There will be three quizzes, each with multiple choice questions. The critiques offer the student the opportunity to show work in progress to the instructor and to the class. This allows each student to obtain feedback on the work presented. There will be four critiques, including the final. The three critiques constitute 25% of the grade and the final critique constitutes 25% of the grade.

XI. Other Course Information:

Open lab times will be announced at the beginning of each semester.

If you have a documented learning, psychological, or physical disability you may be entitled to reasonable academic accommodations or services. To request accommodations or services, contact the ASSIST office in The Learning Center. All students are expected to fulfill essential course requirements. The College will not waive any essential skill or requirement of a course or degree program

Effective beginning term: Summer 2003

Ending term: \_\_\_\_\_

Syllabus prepared by: Bernard Krule

Date: 9/12/2000

Reviewed by Dept./Prog. Chair: Bernard Krule

Date: 9/12/2000

Approval by Dean: Linda A. Korbel

Date: 3/5/2003