



## **COMMON COURSE OUTLINE: Course discipline/number/title: ART 2237: Animation and 3D Modeling**

### **A. CATALOG DESCRIPTION**

- 1. Credits:**3
- 2. Hours/Week:** 6
- 3. Prerequisites (Course discipline/number):** None
- 4. Co-requisites (Course discipline/number):** None
- 5. MnTC Goals (if any):** NA

This Studio Art course covers ideas and methods of creating and animating three-dimensional models, including its history and philosophy. Using the computer as a studio space, basic concepts of perspective, modeling, surface creation, and lighting are covered, as well as fundamentals of animation, including timing, viewpoint and narrative. **RECOMMENDED ENTRY SKILLS/KNOWLEDGE:** One of the following courses: ART 1120, ART 1130, DIGI 1117 or basic knowledge of painting and drawing on the computer.

### **B. DATE LAST REVISED (Month, year):** April, 2007

### **C. OUTLINE OF MAJOR CONTENT AREAS:**

1. Rendering form from observation
2. Modeling techniques, including tools and observation
3. The Basic Design Elements and Visual Organization in three-dimensional space
4. Color theory, Surface and Material characteristics of objects and scenes
5. Animation techniques, including timing, point of view and narrative content
6. History and uses of 3D modeling and animation
7. Output formats for sharing work

### **D. LEARNING OUTCOMES (GENERAL):** The student will be able to:

1. Demonstrate the ability to identify and use the basic visual elements.
2. Demonstrate the ability to render form from observation in a three-dimensional environment by successfully completing a series of modeling assignments.
3. Utilize Art principles of visual organization to create effective compositions for still life and effective narratives for animation.
4. Creatively solve visual problems while demonstrating an awareness of historical and cultural precedent.
5. Strive for individual expression while developing their ability.
6. Critically evaluate their own and their colleagues' work throughout the creative process.
7. Articulate an informed personal reaction during group critiques and through writing on art.

### **E. LEARNING OUTCOMES (MNTC):** NA

### **F. METHODS FOR EVALUATION OF STUDENT LEARNING:**

1. Portfolio based grades
2. Exams
3. Writing Assignments as determined by instructor

### **G. SPECIAL INFORMATION (if any):**

Tuition differential and MN Online fee when offered as an online course.

The initial lab session explains and familiarizes the student with general safety hazards and safety equipment in the lab. During the pre-lab discussion, the hazardous characteristics of the chemicals used during the lab are discussed. The students will be instructed on the proper disposal of any hazardous products. The instructor will direct all students to wear necessary protective equipment while working with the chemicals. A copy of Material Safety Data Sheets for chemicals used is available in the lab.