

**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:** DT 180 Introductory 3D Modeling/Animation with 3D Studio Max

**UNIT VALUE:** 3

**MINIMUM NUMBER OF SEMESTER HOURS:** 96

**BASIC SKILLS REQUIREMENTS:** Appropriate language and computational skills

**ENTRANCE REQUIREMENTS**

**PREREQUISITE:** None

**COREQUISITE:** None

**RECOMMENDED PREPARATION:** DT 125/ R DT 125

**SCOPE OF COURSE:**

An overview of 3D Studio Max. Hands-on operation of the software to produce basic three-dimensional models and basic technical animations.

**SPECIFIC COURSE OBJECTIVES:**

Successful students will:

1. Solve basic problems relating to three-dimensional space using the 3D Studio Max software.
2. Use 3D Studio Max to create basic three-dimensional models, apply materials and mapping coordinates for various rendering formats.
3. Identify graphic multi-media standards using 3D Studio Max.
4. Deduce valid conclusions for three-dimensional 3D Studio Max.

**CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:**

- I. The Basics
  - A. Overview of 3D Studio Max, its underlying concepts, and interface.
  - B. Introduction to three-dimensional space, including concepts, viewing, and navigation techniques.

- C. Basics of selecting and grouping objects and how to transform objects in three-dimensional space by moving, rotating, and scaling.
- D. Basics of using units, grids, snaps, alignment, along with other features to maintain precision.
- II. Creating Basic Objects
  - A. Basic creation methods for three-dimensional objects in 3D Studio Max.
  - B. Specific creation methods for geometric primitive, patches, splines, text shapes, lofts, copies, and arrays.
  - C. Addition of light and cameras.
- III. Modifying Objects
  - A. Basic modifications methods for all objects in 3D Studio Max.
  - B. Modifications of lighting and camera techniques.
- IV. Basic Rendering
  - A. Still rendering standards.
  - B. Hard copy output methods.
  - C. Animations output methods.
- V. Basic Technical Animation
  - A. Basic key frame lay-out.
  - B. Animation rendering.

**REQUIRED READING:**

3D Studio Max Tutorials. (software included)

**SUGGESTED READING:**

Boardman, Ted. 3D Studio Max 5 Fundamentals. Indianapolis, IN: New Writers 2003

**REQUIRED WRITING:**

A technical journal, of at least four pages, for all assigned projects to provide a written procedure for correctly producing the assignment.

**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.**

Assigned readings and class handouts in preparation for examinations and class projects.

**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 X

**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):

- 60% Assignments are submitted and evaluated based on previously provided information and criteria. Assignments include three-dimensional modeling made with 3D Studio Max software.
- 20% Journal of techniques for assigned projects.
- 10% One examination at approximately the eighth week of course to test for general knowledge of material studied in the interim.
- 10% A comprehensive final examination.

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

Yes X 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:

58161 (c) (2) (A)

**CONTACT PERSON:**

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<b>SIGNATURES ON FILE</b>
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