

Course Outline

TEC-D 222 – AutoCAD 3D

Week 1

Day 1

GENERAL INTRODUCTIONS:

- *Class Roster verification, Syllabus, Course Outline, Verification of Student Folders on campus server
- *Discuss 'MID-TERM PROJECT' requirements.
- *Discuss 'FINAL PROJECT' requirements.

Day 2

BASIC FUNDAMENTALS:

- *User interface, Menus, Ribbons, Icons, etc.
- *3D Views: Isometric (NE, SE, NW, SW) Top, Front, Side, etc.
- *VISUAL STYLES
- *Free and Continuous ORBIT
- *VIEWCUBE

SOLID MODELING FUNDAMENTALS:

- *SOLID PRIMITIVES: Box, Wedge, Cylinder, Cone, Sphere, Taurus
- *BOUNDARY, EXTRUDE, PRESSPULL

Week 2

Day 1

SOLID MODELING FUNDAMENTALS:

- *3D-ROTATE, UNION, SUBTRACT, INTERSECT
- *FILLETEDGE, CHAMFEREDGE, SLICE, FACETRES

ASSIGNMENTS: 20-1 & 20-2

Day 2

Solid Modeling Fundamentals:

- *REVOLVE, SWEEP, LOFT, TEXT EXPLODE

ASSIGNMENTS: 20-3, 20-4, & 20-5

Week 3**Day 1****SHEET SETUP:**

*LAYOUT TABS, VIEWPORTS, VIEWS & VISUAL STYLES in viewports

“MID-TERM” PROJECT:

*Re-Discuss “MID-TERM” requirements.

PRINTER ROOM:

*Discuss Scanner, Plotters, Printers, Paper, Ink, etc...

ASSIGNMENTS: *20-6, 20-7, & 20-8*

Day 2**3D-PRINTER:**

*Set FACETRES

*Create STL file: STLOUT

*3D-Printing Process: Model & Support Materials, Plates, Dissolver & Solution

ASSIGNMENTS: *20-9, 20-10, & 20-11*

Week 4**Day 1****LAB DAY:**

ASSIGNMENTS: *20-12, 20-13, & 20-14*

***Work on Mid-Term Project**

Day 2**LAB DAY:**

ASSIGNMENTS: *20-15 & 20-16*

***Work on Mid-Term Project**

Week 5

Day 1

LAB DAY:***Work on Mid-Term Project**

Day 2

MID-TERM PROJECT DUE!**Week 6**

Day 1

“FINAL” PROJECT:***Re-Discuss “FINAL” Project requirements.****2D-Drawing*****FSHOT****ASSIGNMENTS: 20-17 & 20-18**

Day 2

RENDERING:***REALISTIC: Visual Style, MATERIALS BROWSER, LIGHTS****ASSIGNMENTS: 20-19 & 20-20****Week 7**

Day 1

WALK & FLY THROUGH:***ANIMATION PATH, CAMERA, SAVING MOVIE**

Day 2

LAB DAY:***Problems/Graphic Assignments: *Wrap up all regular assignments!***

Week 8

Day 1 **LAB DAY:**
*Work on Final Project

Day 2 **LAB DAY:**
*Work on Final Project

Week 9

Day 1 **LAB DAY:**
*Work on Final Project

Day 2 **LAB DAY:**
*Work on Final Project

Week 10

Day 1 **LAB DAY:**
*Work on Final Project

Day 2 **FINAL PROJECT DUE!**