

# 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!**