

3D Animating Introduction

Course Description:

This course is an introduction to animating (Moving Objects and Characters in 3D) the world of 3D, the course presents the basic animation principles to the students and their application exercises. The course also basics of body mechanics and walk cycle.

Duration: 10 Classes

Course Outcomes

- Get Introduced to the world of 3D and 3D software
- Understand basic animation principles and have different focused exercises on them
- Understand and apply the walk cycle

Course Contents

Class 1

- Introduction to 3D Software
- Introduction to 3D Animation workflow

Class 2

- Introduction to general animation 12 principles.
- Introduction to timeline and keys.
- Timing and spacing.
- Slow in and slow out.
- Pose to pose.
- Demo for bouncing ball
- Bouncing ball test in class

Class 3

- Squash and Stretch
- Arcs
- Graph Editor
- Demo for squash, stretch and arcs
- Bouncing ball test

Class 4

- Overlap.
- Follow through.
- Anticipation.

- Showcase for overlap. anticipation and follow through.
- Demo for overlap. anticipation and follow through.
- Test for overlap. anticipation and follow through in class (ball with tail)

Class 5

- Mid-course Assignments presentations and critiques

Class 6

- Poses and line of action.
- Showcase for strong poses and line of action
- Demo for poses and line action.
- Demo for walk cycle poses.
- Test on poses

Class 7

- Reference for walk cycle
- Main poses for walk cycle
- Demo for main walk cycle poses
- Test for walk cycle main poses

Class 8

- Walk cycle reference for polishing.
- In-between poses and breakdown.
- Polish the walk and how to make it loop.
- Clean graph editor.
- Test in class for breakdown and polish.

Class 9

- Walk cycle more polish in class

Class 10

- Portfolio Presentations

Grading Policy

Student needs at least 80% grade to pass the course

- Animation principles Assignments 40%
- Walkcycle Assignment 30%
- Class Exercises 20%
- Attendance 10%

Attendance Policy

- Every class absence is 5% reduction in the final Grade.
- Student missing more than 2 classes will be failing the course.