



Curriculum Outline

The 1st Advanced Certificate in 3Ds Max Animation Design
6 Sep 2018 – 6 Oct 2018

Course Description

This course is an intermediate course for 3D computer animation. It provides students the fundamental skills to produce 3D animation and the knowledge of basic principles of design and animation. Students learn fundamental tools and techniques for prop modelling in 3Ds Max, and examine the process of how to create models for a variety of applications. All students will have the opportunity to further their progression by learning acting techniques, walk/run/jump cycles, rigging 3D characters using bones.

Course Objective

- To build a framework of skills and vocabulary to create 3D animation.
- To understand the fundamental components and their position in various 3D animation workflows.
- To allow students to proceed with animating characters walking, including bipedal and quadruped treadmill cycles, and figures moving in space.
- To aim at occupation within the advertising and animation industry.

Learning Outcomes

The following knowledge and skills will be acquired by the end of the course

Knowledge: Students will have knowledge of...	Skills: Students will be able to...
<ul style="list-style-type: none">• the principles of animation, the human body and the different animation techniques• basic lighting principles and associated rendering techniques• animation concepts such as camera position, texture, key, frame, keyframe, frame rate, and in-betweens	<ul style="list-style-type: none">• use the tools and commands of 3Ds Max software effectively• communicate the animated figure's attitude, thought, and behavior through his or her body language• demonstrate ability to animate a simple computer-generated character using keyframing



Assessment

	50-59% (Level 1)	60-69% (Level 2)	70-79% (Level 3)	80+% (Level 4)
Knowledge and Understanding				
	The student...			
Knowledge of methods and tools of animation production	demonstrates limited knowledge of methods and tools of animation production	demonstrates some knowledge of methods and tools of animation production	demonstrates considerable knowledge of methods and tools of animation production	demonstrates thorough knowledge of methods and tools of animation production
Understanding of key concepts, principles and theories	demonstrates limited understanding of key concepts, principles and theories	demonstrates some understanding of key concepts, principles and theories	demonstrates considerable understanding of key concepts, principles and theories	demonstrates thorough understanding of key concepts, principles and theories
Thinking				
	The student...			
Use of planning skills (e.g., identifying the problem, selecting strategies and resources, scheduling)	uses planning skills with limited effectiveness	uses planning skills with some effectiveness	uses planning skills with considerable effectiveness	uses planning skills with a high degree of effectiveness
Use of processing skills (e.g., analysing and interpreting information,	uses processing skills with limited effectiveness	uses processing skills with some effectiveness	uses processing skills with considerable effectiveness	uses processing skills with a high degree of effectiveness



reasoning, generating and evaluating solutions, forming conclusions)				
Use of critical/creative thinking processes (e.g., problem-solving, design, and decision-making processes)	uses critical/creative thinking processes with limited effectiveness	uses critical/creative thinking processes with some effectiveness	uses critical/creative thinking processes with considerable effectiveness	uses critical/creative thinking processes with a high degree of effectiveness
Communication				
	The student...			
Expression and organization of ideas and information (e.g., clear expression, logical organization) in visual and written forms	expresses and organizes ideas and information with limited effectiveness	expresses and organizes ideas and information with some effectiveness	expresses and organizes ideas and information with considerable effectiveness	expresses and organizes ideas and information with a high degree of effectiveness
Communication of practice-related problems and solutions with tutor/ classmates	communicates practice-related problems and solutions with limited effectiveness	communicates practice-related problems and solutions with some effectiveness	communicates practice-related problems and solutions with considerable effectiveness	communicates practice-related problems and solutions with a high degree of effectiveness
Application				
	The student...			
Application of knowledge and skills (e.g.,	applies knowledge and skills in familiar	applies knowledge and skills in familiar	applies knowledge and skills in familiar	applies knowledge and skills in familiar

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concepts, processes, use of equipment and technology) in familiar contexts	contexts with limited effectiveness	contexts with some effectiveness	contexts with considerable effectiveness	contexts with a high degree of effectiveness
Ability to apply the key concepts holistically and creatively on a multifaceted production	applies the key concepts holistically and creatively on a multifaceted production with limited effectiveness	applies the key concepts holistically and creatively on a multifaceted production with some effectiveness	applies the key concepts holistically and creatively on a multifaceted production with considerable effectiveness	applies the key concepts holistically and creatively on a multifaceted production with a high degree of effectiveness