Code: COMP0902	25	SCQF Le (Scottish Cr Qualification		Credit Points: 2		ean Credit Transfer		
School:		School of	School of Computing, Engineering and Physical Sciences					
Module Co-ordina	ator:	Patrick V	Patrick Walder					
Summary of Mod	ule							
	covered include	animation techniq e particle systems,						
animation and sin	mulation process ical and theoretic	oment of tools for a ses. The focus is o cal grasp of the teo k assignments.	n solving practi	cal problems rathe	r than learning ab	out programming		
Work Ready(Inquiring Wo Innovative Po	(keywords) and S ork Ready Know ersonal Universa reative Professio	'I am UWS" gradu Successful (keywo ledgeable Digitally al Culturally aware onal Universal Res	rds) Academic V y Literate Proble Work Ready E	Universal Critical ' em-solver Success ffective communic	Thinker Analytica ful Autonomous ator Motivated	/·		
Module Delivery	Method							
Face-To-Face	Blended	Fully Onlin	ne Hybri	dC Hybri	dO Work-b	ased Learning		
~	~							
provision. Blended A mode of delivery o support and feedback	f a module or a prog . A programme may	room environment whe ramme that involves on be considered "blended ace and campus elemen	line and face-to-face	e delivery of learning, t nbination of face-to-fac	eaching and assessmer e, online and blended	t activities, student modules. If an online		
Fully Online	ely delivered by web	-based or internet-based	d technologies. This	term is used to describ	e the previously used t	erms distance learning		
HybridC Online with mandator	ry face-to-face learni	ing on Campus						
HybridO Online with optional	face-to-face learning	on Campus						
Work-based Learning Learning activities wi		on for the learning expe	rience is in the work	place.				
Campus(es) for M	Iodule Delivery							
The module will r student numbers p	•	red on the followir	ng campuses / or	by Distance/Onli	ne Learning: (Prov	vided viable		
					Distance/			

~							
Term(s) for Mod	Term(s) for Module Delivery						
(Provided viable student numbers permit).							
Term 1		Term 2		~	Term 3		
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Learning Outcomes: (maximum of 5 statements)							

On successful completion of this module the student will be able to:

L1. Demonstrate knowledge and understanding of 3D dynamics simulation methods for animation of fluids, particles, hair and cloth systems

L2. Demonstrate the ability to implement scripting methods to support the generation of complex animated scenes

L3. Apply advanced animation techniques in order to accurately simulate real-world processes

Employability Skills and Per	rsonal Development Planning (PDP) Skills			
SCQF Headings	During completion of this module, there will be an opportunity to achieve core skills in:			
Knowledge and Understanding (K and U)	SCQF Level 9. Develop understanding of key concepts in scripting and dynamics simulation used in the 3D animation industry. Selection of appropriate techniques and strategies used in production of 3D simulations using current industry standard tools.			
Practice: Applied Knowledge and Understanding	 SCQF Level 9. Application of techniques in dynamics simulation to accurately simulate real world dynamic systems. Carrying out research into real world dynamical systems and applying this understanding within the context of 3D computer animation. 			
Generic Cognitive skills	SCQF Level 9. Characterisation of problems in dynamics simulation, and relating these to equivalent real world situations. Identification of appropriate scripting solutions for complex animation tasks.			
Communication, ICT and Numeracy Skills	SCQF Level 9. Development of the numeric skills and techniques necessary to implement dynamics simulation techniques, and to study the mechanics of movement. Critical awareness of a range of complex software tools used for 3D simulations.			

Autonomy, Accountability and Working with others	SCQF Level 9. Students will engage in individual projects but will be expected to subject their work to review by lecturing staff and their peers.			
Pre-requisites:	uisites: Before undertaking this module the student should have und			
	Module Code: COMP08013	Module Title: 3D Asset Production 1		
	Other:			
Co-requisites	Module Code:	Module Title:		

* Indicates that module descriptor is not published.

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Learning and Teaching

The module will be delivered by means of lab-based sessions aimed at developing relevant knowledge and skills. Classes will introduce and develop the essential underlying concepts common to dynamics simulation processes, and apply these to specific application areas. Key concepts and methods in scripting for 3D animation will also be explored. The sessions will allow students to put into practice what they have learned. Exercises will primarily be delivered via video tutorials. Student knowledge will be assessed through practical assignments that entail implementation a range of techniques covered in the module.

Learning Activities During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:	Student Learning Hours (Normally totalling 200 hours): (Note: Learning hours include both contact hours and hours spent on other learning activities)
Laboratory/Practical Demonstration/Workshop	36
Lecture/Core Content Delivery	12
Independent Study	152
	200 Hours Total

**Indicative Resources: (eg. Core text, journals, internet access)

The following materials form essential underpinning for the module content and ultimately for the learning outcomes: Notes and online resources

Or Other suitable reference/text book covering animation techniques.

Palamar, T. (2016). Mastering Autodesk Maya 2016. Indianapolis, Indiana: Sybex, A Wiley Brand.

Keller, E. and Dayan, M. (2013). Maya visual effects : the innovator's guide. New York: Autodesk.

(**N.B. Although reading lists should include current publications, students are advised (particularly for material marked with an asterisk*) to wait until the start of session for confirmation of the most up-to-date material)

Engagement Requirements

In line with the Academic Engagement Procedure, Students are defined as academically engaged if they are regularly engaged with timetabled teaching sessions, course-related learning resources including those in the Library and on the

relevant learning platform, and complete assessments and submit these on time. Please refer to the Academic Engagement Procedure at the following link: Academic engagement procedure

Where a module has Professional, Statutory or Regulatory Body requirements these will be listed here: Students are expected to demonstrate engagement through submission of all coursework and attendance at scheduled lab and lecture sessions. Students should inform the lecturer of any external circumstance requiring non-attendance. Missing any session without good reason and communication may result in removal from the module. Failure to submit coursework may also result in the removal from the module.

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Supplemental Information

Programme Board	Computing
Assessment Results (Pass/ Fail)	No
Subject Panel	Creative Computing
Moderator	Peter Satera
External Examiner	S Kennedy-Parr
Accreditation Details	N/A
Version Number	2.09

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Assessment: (also refer to Assessment Outcomes Grids below)

Practical (100%) [Two practical assignments, to be submitted in weeks 8 and 13 of the semester] Formative exercises will be incorporated into the lab tasks to enable students to gain feedback on their understanding of the module contents.

(N.B. (i) Assessment Outcomes Grids for the module (one for each component) can be found below which clearly demonstrate how the learning outcomes of the module will be assessed.

(ii) An indicative schedule listing approximate times within the academic calendar when assessment is likely to feature will be provided within the Student Handbook.)

Assessment Outcome Grids (Footnote A.)

Component 1

Assessment Type (Footnote B.)	Learning Outcome (1)	Learning Outcome (2)	Learning Outcome (3)	Weighting (%) of Assessment Element	Timetabled Contact Hours
Portfolio of practical work	1	~	1	100	0
Combined Total For All Components				100%	0 hours

Footnotes

A. Referred to within Assessment Section above

B. Identified in the Learning Outcome Section above

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Note(s):

1. More than one assessment method can be used to assess individual learning outcomes.

2. Schools are responsible for determining student contact hours. Please refer to University Policy on

contact hours (extract contained within section 10 of the Module Descriptor guidance note). This will normally be variable across Schools, dependent on Programmes &/or Professional requirements.

Equality and Diversity

The University policies on equality and diversity will apply to this module: the content and assessment are based on the ability to communicate in English but are otherwise culture-neutral. This module is almost entirely computer based and students must be proficient computer users within a windows, icons and mouse pointer environment with the use of suitable aids where required. When a student discloses a disability an enabling support advisor will agree the appropriate adjustments to be made, consulting with the module coordinator if necessary. Further guidance available from Student Services, Enabling Support Co-ordinators or the University's Equality and Diversity Co-ordinator. UWS Equality and Diversity Policy

(N.B. Every effort will be made by the University to accommodate any equality and diversity issues brought to the attention of the School)

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