

## **Module Descriptor**

Title	Computer Games Honours Project						
Session	2025/26	Published					
Code	COMP10079	SCQF Level	10				
Credit Points	40	ECTS (European Credit Transfer Scheme)	20				
School	Computing, Engineering and Physical Sciences						
Module Co-ordinator	Dr Gavin Baxter						

## **Summary of Module**

This project module will allow a student to undertake an extensive individual project in an investigative development project within their area of interest and chosen specialism. If a student specifies that their next ambition is to enter a Masters level programme then the project can be more investigative in nature in terms of identifying research methodologies, performing systematic literature reviews, a smaller part of development and then some form of evaluative research to formulate conclusions. If this is the case, then the project will be research based and be up to 60% research. If a student specifies that they are wishing to increase their developmental/implementation skill set then the project will be primarily design, implementation and testing where the project will be up to 60% implementation. The module will allow a student to select a research-based project or a development-based project.

The module is delivered via a series of on-campus lectures and tutorials designed to guide the students through their Honours dissertations.

- Implementation of a Computer Game at various levels of complexity depending on project type.
- Investigation and identification of software development lifecycle/games development methodologies.
- Investigation, identification, and Performance of a Software Games testing methodology.
- Production of an Evaluation Plan utilising a suitable Evaluation methodology.
- Perform an extensive qualitative or quantitative evaluation of a Computer Game if the project is research based.
- Perform a smaller scale qualitative or quantitative evaluation of a Computer Game if the project is development based and produce a show reel of developed work.

This module embeds the key "I am UWS" graduate attributes and in particular: Universal (critical thinker, analytical, inquiring), Work Ready (knowledgeable, digitally-literate, problemsolver) and Successful (creative, imaginative, innovative, autonomous).

	ule Delivery	On-Cam	ous¹		Hybrid <sup>2</sup>	Online	$e^3$			
Meth	nod							Learning⁴		
Co.111					Lanarks	hira		ا مانام	Distance	
	ipuses for ule Delivery	☐ Ayr				nire	_		Distance	
Mou	ute Delivery	Dumfri 🗌	es		London		Learning			
					Paisley		∐ C	ther (	specify)	
Токи	ns for Module	Term 1		1	Term 2		Term			
		lerm i		J	letti 2		lerm	13		
Deli										
_	g-thin Delivery	Term 1 –			Term 2 –		Term			
	more than one	Term 2			Term 3		Term	1		
Term	1									
		•	•				•		•	
Lear	ning Outcomes	i								
L1	-	n for a defined c	-				-			
	_	capacity to bett								
		or entry into th							ain	
	_	project specifi			_					
		r developing a g	ame in	a ch	nosen topic r	elevant to C	compu	ter Ga	mes	
	Development i	nterests.								
L2		d and critical re					-		_	
		neoretical, deve								
		nes Design Doc			_					
	_	d Log and an Ev	/aluatio	on w	ith the appro	priate analy	sis of	result	s utilising	
	statistical tech	niques.								
L3	Demonstrate a	n ability to criti	cally se	elect	and apply ap	opropriate r	esearc	ch		
	methodologies	s, software deve	lopme	nt lif	fecycle meth	odologies d	evelop	ment		
	techniques in p	oroducing a sol	ution to	рар	ractical com	puter game	relate	d prob	lem or	
area.										
L4	L4 Critically and reflectively plan, execute, and present a computing games project to							ect to		
	develop an artefact that is fit for purpose i.e. an industry standard prototype suitable for									
	showcasing an	d portfolio incl	usion.							
15	L5 Demonstrate orally via a presentation an overview of a chosen dissertation subject area							hiect area		
LJ	along with a developed game to be viewed by an informed audience.						ibject area			
	atong with a do	Topod Barrio	-5 20 VI							
Emp	loyability Skills	and Personal	Develo	pm	ent Planning	(PDP) Skil	ls			
SCO	F Headings	During comple	etion o	f thi	s module, th	ere will he	an on	portu	nity to	
		achieve core s			o modute, ti	IOIO WILL DE	an op	Portu	inty to	
			11	••						

Employability Skills and Personal Development Planning (PDP) Skills					
SCQF Headings	During completion of this module, there will be an opportunity to achieve core skills in:				

<sup>&</sup>lt;sup>1</sup> Where contact hours are synchronous/ live and take place fully on campus. Campus-based learning is focused on providing an interactive learning experience supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus contact hours will be clearly articulated to students.

<sup>&</sup>lt;sup>2</sup> The module includes a combination of synchronous/ live on-campus and online learning events. These will be supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus and online contact hours will be clearly articulated to students.

<sup>&</sup>lt;sup>3</sup> Where all learning is solely delivered by web-based or internet-based technologies and the participants can engage in all learning activities through these means. All required contact hours will be clearly articulated to students.

<sup>&</sup>lt;sup>4</sup> Learning activities where the main location for the learning experience is in the workplace. All required contact hours, whether online or on campus, will be clearly articulated to students

Knowledge and Understanding (K and U)	SCQF 10  Demonstrate an understanding of the nature of investigative research on a games related subject and illustrate the appropriate selection of development, testing and evaluation techniques towards the development of the students' game.						
Practice: Applied	SCQF 10						
Knowledge and Understanding	Display the ability to undertake and individually coordinate a games development project focusing on the design and implementation of a research related topic.						
Generic	SCQF 10						
Cognitive skills	Logically plan and execute a substantial piece of development work whilst providing evidence related to all aspects of the games development life-cycle.						
Communication,	SCQF 10						
ICT and Numeracy Skills	Develop and enhance written communication and presentation skills in addition to development skills incorporating aspects of the games design process.						
Autonomy,	SCQF 10						
Accountability and Working with Others	Demonstrate the ability to work autonomously to work towards project deliverables and deadlines in terms of creating a game and simultaneously writing the project dissertation.						

Prerequisites	Module Code	Module Title			
	Other				
Co-requisites	Module Code	Module Title			

# Learning and Teaching

In line with current learning and teaching principles, a 20-credit module includes 200 learning hours, normally including a minimum of 36 contact hours and maximum of 48 contact hours.

Learning Activities	Student Learning Hours
During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:	(Note: Learning hours include both contact hours and hours spent on other learning activities)
Lecture / Core Content Delivery	20
Tutorial / Synchronous Support Activity	60
Independent Study	300
Personal Development Plan	20
Please select	
Please select	
TOTAL	400

#### **Indicative Resources**

# The following materials form essential underpinning for the module content and ultimately for the learning outcomes:

Adams, E. (2014) Fundamentals of Game Design. (3rd Edition). New Riders.

Creswell, J.W. (2014) Research Design: Qualitative, Quantitative and Mixed Methods Approaches. (4th Edition). Sage.

Greetham, B. (2009) How to Write Your undergraduate Dissertation. Palgrave Study Skills.

Hainey, T. and Baxter, G. (2022) Writing Successful Undergraduate Dissertations in Games Development and Computer Science. Routledge.

Macklin, C. and Sharp, J. (2016) Games, Design and Play: A Detailed Approach To Iterative Game Design. Addison-Wesley.

McMillan, K. and Weyers, J. (2011) How to Write Dissertations and Project Reports. Pearson. Schell, J. (2015) The Art of Game Design: A Book of Lenses. CRC Press.

(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)

### **Attendance and Engagement Requirements**

In line with the <u>Student Attendance and Engagement Procedure</u>, Students are academically engaged if they are regularly attending and participating in timetabled oncampus and online teaching sessions, asynchronous online learning activities, course-related learning resources, and complete assessments and submit these on time.

For the purposes of this module, academic engagement equates to the following:

The School of Computing, Engineering and Physical Sciences considers attendance and engagement to mean a commitment to attending, and engaging in, timetabled sessions. You will scan your attendance via the scanners each time you are on-campus and you will login to the VLE several times per week. Where you are unable to attend a timetabled learning session due to illness or other circumstance, you should notify the Programme Leader that you cannot attend. Across the School an 80% attendance threshold is set. If you fall below this, you will be referred to the Student Success Team to see how we can best support your studies.

### **Equality and Diversity**

The University's Equality, Diversity and Human Rights Procedure can be accessed at the following link: <a href="UWS Equality">UWS Equality</a>, <a href="Diversity and Human Rights Code.">Diversity and Human Rights Code.</a>

Aligned with the University's commitment to equality and diversity, this module supports equality of opportunity for students from all backgrounds and learning needs. Using the VLE, material will be presented electronically in formats that allow flexible access and manipulation of content. This module complies with University regulations and guidance on inclusive learning and teaching practice. This module has lab-based teaching and as such you are advised to speak to the Module Co-ordinator to ensure that specialist assistive equipment, support provision and adjustment to assessment practice can be put in place, in accordance with the University's policies and regulations.

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

Divisional Programme Board	Computing					
Overall Assessment Results	☐ Pass / Fail ⊠ Graded					
Module Eligible for	☐ Yes ⊠ No					
Compensation	If this module is eligible for compensation, there may be cases where compensation is not permitted due to programme accreditation requirements. Please check the associated programme specification for details.					
School Assessment Board	Professor Sylvester Arnab					
Moderator	Dr Thomas Hainey					
External Examiner	Professor Sylvester Arnab					
Accreditation Details	TIGA					
Module Appears in CPD catalogue	Yes No					
Changes / Version Number	Version 1					
Assessment (also refer to Asse	essment Outcomes Grids below)					
Assessment 1						
Assessment 1 – Research and d	evelopment (80%)					
Assessment 2						
Assessment 2 – Oral Presentation	on of dissertation and game (20%)					
Assessment 3						

(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 Module Handbook.)

Component 1							
Assessment Type	LO1	LO2	LO3	LO4	LO5	Weighting of Assessment Element (%)	Timetabled Contact Hours
Dissertation/ Project report/ Thesis						80	4

Component 2							
Assessment Type	LO1	LO2	LO3	LO4	LO5	Weighting of Assessment Element (%)	Timetabled Contact Hours
Presentation						20	2

Component 3			

Assessment Type	L01	LO2	LO3	LO4	LO5	Weighting of Assessment Element (%)	Timetabled Contact Hours
Combined total for all components						100%	hours

# **Change Control**

What	When	Who	