

# This Version is No Longer Current

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#### **MODULE DESCRIPTOR**

### **Module Title**

Games Development			
Reference	CM4114	Version	1
Created	April 2017	SCQF Level	SCQF 10
Approved	August 2017	SCQF Points	15
Amended		ECTS Points	7.5

# Aims of Module

To provide the student with the knowledge and skills needed to build interactive games using a modern game development framework, while developing an understanding of player expectations, the playtesting of video games, and the accessibility requirements of modern entertainment titles.

# Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Use the facilities available in a suitable game development framework to develop interactive gaming experiences.
- 2 Design, code and implement 2D or 3D gaming interfaces, making use of appropriate modern technologies for scene and game logic representation.
- 3 Employ game deployment techniques to create a distributable file for multiple platforms.
- 4 Design, implement and test a video game against user expectations.
- 5 Demonstrate a critical understanding of accessibility issues with respect to the game design and development.

#### **Indicative Module Content**

Overview of 3D representation of game objects, scenes, cameras, physics, textures and materials, sound, game logic, persistence, multi-platform deployment, game interface design, animation, game design, accessibility.

#### **Module Delivery**

Key concepts and ideas are introduced in lectures. In the lab sessions, the students will develop and implement practical aspects of game development in a modern development environment. The labs will involve use of existing IDE and GUI tools for the development, deployment and testing of game applications.

	Module Ref:	CM411	4 v1
Indicative Student Workload		Full Time	Part Time
Contact Hours		34	N/A
Non-Contact Hours		116	N/A
Placement/Work-Based Learning Experience [Notional] Hours		N/A	N/A
TOTAL		150	N/A
Actual Placement hours for professional, statutory or regulatory bo	dy		

# ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

# **Component 1**

Туре:	Coursework	Weighting:	100%	Outcomes Assessed:	1, 2, 3, 4, 5
Description:	Component 1: Coursework worth 100% of total module assessment				

# MODULE PERFORMANCE DESCRIPTOR

# **Explanatory Text**

The calculation of the overall grade for this module is based on 100% weighting of C1. An overall minimum grade of D is required to pass the module.

Module Grade	Minimum Requirements to achieve Module Grade:
Α	The student needs to achieve an A in C1.
В	The student needs to achieve a B in C1.
С	The student needs to achieve a C in C1.
D	The student needs to achieve a D in C1.
E	The student needs to achieve an E in C1.
F	The student needs to achieve an F in C1.
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements	
Prerequisites for Module	The student should have previous experience of using an object oriented programming language and/or appropriate graphical design module.
Corequisites for module	None.
Precluded Modules	None.

# INDICATIVE BIBLIOGRAPHY

- 1 Borromeo, N., 2020. Hands-On Unity 2020 Game Development. Packt Publishing.
- 2 Ferrone, H., 2020. Learning C# By Developing Games With Unity 2020 Fifth Edition. Packt Publishing; 5th Revised edition
- 3 Doran, J., 2020. Unity 2020 Mobile Game Development Second Edition. [S.I.]: Packt Publishing.
- 4 Felicia, P., 2019. Unity From Zero To Proficiency (Foundations). Independently published.
- 5 Gilbert, R., 2019. INCLUSIVE DESIGN FOR A DIGITAL WORLD. 1st ed. Apress; 1st ed. edition.