City University of Hong Kong Course Syllabus

offered by School of Creative Media with effect from Semester A 2017 /18

Part I Course Over	view
Course Title:	Game Prototyping & Design
Course Code:	SM3601
Course Duration:	One semester
Credit Units:	3
Level:	B3 Arts and Humanities
Proposed Area: (for GE courses only)	Study of Societies, Social and Business Organisations Science and Technology
Medium of Instruction:	English
Medium of Assessment:	English
Prerequisites: (Course Code and Title)	Nil
Precursors: (Course Code and Title)	Nil
Equivalent Courses : (Course Code and Title)	Nil
Exclusive Courses: (Course Code and Title)	SM2602 Game Design Fundamentals

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Part II **Course Details**

1. **Abstract**

(A 150-word description about the course)

This course aims to help students understand the game design / development process, how to prepare a design document, and basic game design principles; how to analyze and evaluate a game; help student understand the psychological, social, and other factors that create "fun" behind a game and related game theories; help students understand the history of video game, different genres of game, aesthetics and cultural issues in games, the politics and social issues in multiplayer games, and the basic of game technology and game prototyping tools.

Course Intended Learning Outcomes (CILOs)

(CILOs state what the student is expected to be able to do at the end of the course according to a given standard of performance.)

No.	CILOs#	Weighting*	Discov	very-en	riched
		(if	curricu	ılum re	lated
		applicable)	learnir	ng outco	omes
			(please	e tick	where
			approp	oriate)	
			A1	A2	<i>A3</i>
1.	Analyze and evaluate various types of game			✓	
2.	Apply their understanding of various game elements and		✓	✓	✓
	create a licensed game design and design a simple game				
3.	Implement and play-test a game and create a clear and		✓	✓	✓
	detail game manual				
4.	Design and create a game box			✓	✓
5.	Appreciate games designs and complexities		✓		
6.^	Commit strongly to self-assessment and self-directed		✓	✓	✓
	learning in order to continually refine practices				
* If we	eighting is assigned to CILOs, they should add up to 100%.	100%		•	•

^{*} If weighting is assigned to CILOs, they should add up to 100%.

A1:

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: Ability

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to self-life problems.

Accomplishments

Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

[#] Please specify the alignment of CILOs to the Gateway Education Programme Intended Learning outcomes (PILOs) in Section A of Annex.

[^] Negotiated Learning Outcome (NLO) explicitly articulating the elements of Discovery oriented learning.

3. Teaching and Learning Activities (TLAs)

(TLAs designed to facilitate students' achievement of the CILOs.)

TLA	Brief Description	CIL	O No.					Hours/week (if
		1	2	3	4	5	6	applicable)
Analysis Report	Case study on various types of games, write a simple game analysis.	1						4 hrs
Assignment	Design a license game, write a simple design document; Create a back box for it.		√					3 hrs
Project	Design a game, write a simple design document			√				3 hrs/wk for 3 weeks
Project	Implement and play-test the game designed in CILO 3				✓			3 hrs/wk for 3 weeks
Project	Write a game user manual for the game designed in CILO 3					1		2 hrs
Project	Create a game box for CILO 3.						/	2 hrs
Lecture	Lecture with interactivity		1					3 hrs/wk

4. Assessment Tasks/Activities (ATs)

(ATs are designed to assess how well the students achieve the CILOs.)

Assessment Tasks/Activities	CILO No.						Weighting*	Remarks
	1	2	3	4	5	6		
Continuous Assessment: 100%								
Coursework / Quiz	/	/					40%	
Project			/	/	/	/	50%	
Presentation	/	/		/		/	10%	
Examination: 0% (duration:, if applicable)								

^{*} The weightings should add up to 100%.

100%

5. Assessment Rubrics

(Grading of student achievements is based on student performance in assessment tasks/activities with the following rubrics.)

Assessment Task	Criterion	Excellent	Good	Fair	Marginal	Failure
		(A+, A, A-)	(B+, B, B-)	(C+, C, C-)	(D)	(F)
1. Coursework, Project	Students should demonstrate ability to utilize primary and secondary sources, build up argument and analysis. The threshold of 'discovery' lied in a student's self initiatives to conduct additional research and to personalize theories for her/his personal daily experience.	 Excellent grasp of research material, able to explain key concepts, assumptions and debates Rigorous organization, coherent structure, distinct thesis, properly argued with strong narrative Insightful interpretation of the subject matter with distinct themes and thesis Critical analysis with insightful comments opening up new issues, or suggesting the ability to theorize Ability to approach a text or a theme using a variety of theories and analytical tools 	 Firm grasp of materials, able to explain key concepts and assumptions Reasonable organization, balanced structure, adequate content, sufficient ability to integrate various resources based on demand Clear ideas which keep to the point, clear-cut subject, ability to interpret opinions independently Organized bibliography which can be utilized in accordance with the topic The student's work is good. It exceeds the subject learning outcomes in 	 Comprehensive grasp of materials, able to explain key concepts Fair organization, weak structure, adequate content, fair ability to integrate various resources based on demand Relevant points to the subject matter, fair ability to interpret opinions Unorganized bibliography which can be utilized in accordance with the topic The student's work is wholly satisfactory. If largely meets all the subject learning outcomes. The student may lack the confidence and commitment to present an informed synthesis from the range of learning 	 Loose grasp of materials, cannot explain key concepts Poor organization and structure, weak content, limited use of resources Relevant points to the subject matter, marginal ability to interpret opinions Insufficient and/or unorganized bibliography The student's work is weak. It fails to meet the subject learning outcomes in some regards. There may be elements that are very derivative, and just sort of plagiarism. Frequently there is quantitatively little outcome as well. 	 Poor grasp of materials No organization and structure, inadequate content, no/ irrelevant use of resources Irrelevant points to the subject matter, minimal ability to interpret opinions Irrelevant bibliography The student's work is inadequate. It fails to meet most of the subject learning outcomes. Non submission of work without evidence of extenuating circumstances would normally cause this category to be applied automatically.

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Assessment Task	Criterion	Excellent	Good	Fair	Marginal	Failure
		(A+, A, A-)	(B+, B, B-)	(C+, C, C-)	(D)	(F)
		 Strong bibliography suggesting breadth and depth of coverage and informed insights The student's work is of an excellent / outstanding standard. It exceeds the subject learning outcomes in nearly all regards. Demonstrating originality, often involving original research, interpretations, or insights. Relevant technical skills are used with confidence and combined with an intellectual and imaginative 	some regards. A competent and generally successfully body of work and other evidence which indicates of all of the elements but this is not sustained across all the elements.	opportunities on offer.		
2. Presentation	This assessment will grade on content and fluency of presentation. Students should show their co-operation to	understanding. - Rich, informative content, excellent grasp of the material	Adequate content with firm grasp of the material that informs the	Adequate content with comprehensive grasp of the material	Weak content, loose grasp of the general ideas with some knowledge of the subject matter	Inadequate content, fail to identify the general ideas with knowledge of the subject matter
	their co-operation to conduct a	of the material with in-depth	informs the audience on a		subject matter - Poor organization,	subject matte - No organizati

Assessment Task	Criterion	Excellent	Good	Fair	Marginal	Failure
		(A+, A, A-)	(B+, B, B-)	(C+, C, C-)	(D)	(F)
	well-organized presentation with their own argument and evidence from readings and notes. The threshold of 'discovery' lied in a student' s self initiatives to conduct additional research and to personalize theories for her/his personal daily experience.	and extensive knowledge of the subject matter Rigorous organization, coherent structure, and systematic exposition with a strong sense of narrative Superior presentation skills: distinct pronunciation, fluent expression and appropriate diction, exact time-manageme nt Critical analysis with insightful comments opening up new issues, or suggesting the ability to theorize	subject matter Reasonable organization, balanced structure and composition Good verbal communication: comprehensible pronunciation, fluent expression and diction, fair time-manageme nt	basic knowledge of the subject matter Fair organization, weak structure and composition Fair presentation skills: acceptable pronunciation, expression and diction, fair time-management	structure and composition Poor presentation skills: marginal pronunciation, expression and diction, poor time-management	structure or/and composition Poor presentation skills: marginal pronunciation, expression and diction, minimal time-management

Note: All A+/A/A- grade assignment should comply with the highest performance of Discovery-oriented learning.

Part III Other Information (more details can be provided separately in the teaching plan)

1. Keyword Syllabus

(An indication of the key topics of the course.)

History of games. Game genres. Game analysis. Game design / principles. Game design document, user manual. Game box design. Decision making, game story telling. Game play design and theory. Card / Board game. Game technology. Future of Gaming.

2. Reading List

2.1 Compulsory Readings

(Compulsory readings can include books, book chapters, or journal/magazine articles. There are also collections of e-books, e-journals available from the CityU Library.)

1.	Chris Crawford, <i>Chris Crawford on game design</i> , New Riders Publishing, 2003.
2.	Andrew Rollings and Dave Morris, <i>Game Architecture and Design</i> . The Coriolis Group. 1999
3.	Mark Louis Rybczyk, Richard Rouse, Computer Game Design: Theory and Practice.
	Wordware Publishing, 2001.
4.	Leonard Herman, Phoenix: The Rise and Fall of Videogames. 2d ed. Union, N.J.: Rolenta
	Press, 1999.
5.	Alice LaPlante and Rich Seidner, Playing for Profit: How Digital Entertainment is Making Big
	Business Out of Child's Play. New York: John Wiley, 1999.
6.	Andrew Rollings, Patterns in Game Design: Advanced Design Patterns for Games- Made
	Easier. The Coriolis Group, 2001.
7.	Bob Bates and Andre Lomothe, Art and Business of Creating Games. Prima Publishing. 2001.
8.	Steven Kent, The Ultimate History of Video Game. Crown Publishing. 2010.
9.	Michael E. Moore, Basics of game design. AK Peters / CRC press. 2011.
10.	Ernest Adams, Fundamentals of game design. New Riders. 2010.
11.	Katie Salen, Eric Zimmerman, Rules of Play: Game Design Fundamentals. The MIT Press,
	2003.
12.	Mary Flanagna, Critical Play: Radical Game Design. The MIT Press, 2009.
13.	Morgan McGuire and Odest Chadwicke Jenkins, Creating Games: Mechanics, Content, and
	Technology. A K Peters, 2009.
14.	Jesse Schell, The art of game design: A book of lenses. Morgan Kaufmann, 2008.
15.	Raph Koster, A theory of fun for game design. Paraglyph Press, 2005.
16.	Gamasutra - http://www.gamasutra.com

2.2 Additional Readings

(Additional references for students to learn to expand their knowledge about the subject.)

1.	Tracy Fullerton, Game Design Workshop. A Playcentric Approach to Creating Innovative
	Games. A K Peters/CRC Press, 2014.
2.	Michelle Menard, Game Development with Unity. Course Technology PTR, 2011.

3.	Simple DirectMedia Layer: http://www.libsdl.org/index.php
4.	Unity Game Engine: http://unity3d.com