	REQU	IRED COURSE IVE COURSE						DIVISION NEW COURSE REVISION
		La	ike Land Colle	ge				
			Course Information For	m				
COURSE NUMBER:		CIS-065	TITLE: (30 Characters	Max)	Advar	nced Game I	Development	
SEM CR HRS:	3	Lecture:	2		Lab:	2		ECH: 4
Course Level:		Gen Ed / IAI	Technical / Not in Degree Audit	Clinic	cal Practicum:	0	SOE/ Internship: 0	SOE 0
COURSE PCS #		12	IAI Code				Contact Ho	urs Per Week
Repeatable (Y/N):	Υ	Pass/Fail (Y/N): N	Variable Credit (Y/N):	Ν	Min:	Max:	16 Wks 200	8 wks 400
Prerequisites:		CIS-062						
Catalog Description: (40 W Limit)	ord/	An in-depth examination of the differe programming and animation skills with						
		ist the Major Course Segments (Unit	s)		Contact Lecture Hours	Contact La Hours	ab Clinical Practicum	Non-Clinical Internship/ SOE
Overview of the basic game	desigr	process			3			
Game genres overview					5	4		
Character and story develope Environment and level design					4	2		
Model development, animati		d integration			3	3		
Gameplay development	ion an	a integration			5	6		
Force feedback and other ad	lvance	d input/output			2	3		
Multi-player game creation a					2	5		
Final project development					2	3		
								+
			T	OTAL	30	30	0	0
			EV/ALLITION!					
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COURSE MA	ATERIALS
TITLE: The Art of Game Design: A Book of Lenses	
AUTHOR:	
PUBLISHER: CRC Press	
VOLUME/EDITION/URL:	
COPYRIGHT DATE: 2014	
TITLE: Level Up! – Guide to Great Video Game Design	
AUTHOR: Rogers	
PUBLISHER: Wiley	
VOLUME/EDITION/URL:	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES	
		The student will be able to:	
Overview of the basic game design process		Identify the steps involved in developing a retail game release from beginning to end.	
Game genre overview		Explore the variety of different game genres that exist and discuss the pros and cons of each.	
Lab Exercises	4	Load and play sample games in each genre to determine best and worst techniques in each category.	

Lab Exercises 2 Create unique storylines in the different genres. Lab Exercises 2 Create unique storylines and appropriate chara given a scenario. Environment and level design 4 Explore the different tools and techniques used the creation of backgrounds and game environments. Lab Exercises 4 Create different 2D and 3D environments and integrate them into different types of games. Model development, animation and integration 3 Discuss how animation tools and techniques are used in the typical game development process Lab Exercises 3 Develop simple models and animations and integrate them into a working game. Examine gameplay techniques in existing game determine when each is appropriate. Force feedback and other advanced input/outp Lab Exercises 3 Modify an existing game to incorporate force feedback. Multi-player game creation and conversion 2 Discuss the functional differences between sing and multi-player games and how to convert on the other. Lab Exercises 5 Modify an existing single player game to incorporate force feedback. Final project development 2 Discuss the options for reviewing code, error-correcting game sequences and outputting cor games.			
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Lab Exercises 3			Force feedback and other advanced input/output.
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Final project development 2 correcting game sequences and outputting corgames. Lab Exercises 3 Create executables from final, debugged code	Lab Exercises	5	Modify an existing single player game to incorporate multiple players in a networked environment.
	Final project development	2	correcting game sequences and outputting compiled
Insert New Line Above this Line	Lab Exercises	3	Create executables from final, debugged code.
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At the successful completion of this course, students will be able to:
• Describe the BC same development process
Describe the PC game development process.
• Create a variety of PC, mobile, or console games.
Understand the game development environment.

^{*} Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.