Minor Program Adjustment

Faculty: Faculty of Business and IT	Date : Sept 18, 2017	
Program: Game Development & Entrepreneurship		
Undergraduate:	Graduate:	

Minor Program Adjustments include: New required courses, Deletion of required courses, Other changes to degree requirements or program learning outcomes, New academic requirements or changes to existing requirements.

Motion: That CPRC approve the changes to the Game Development program as presented.

Proposal Brief

Summary of the proposed change

Removal of core courses from curriculum map: •

INFR 1300U – Creative Writing and Narrative o

YEAR 1 FALL

- should become an available technical elective o BUSI
 1700U Intro to entrepreneurship to take its place
- BUSI 2120U Accounting for IT O YEAR 3 FALL
 - To make room for business courses in the new proposed minor
 Addition of courses to CORE curriculum map:
- INFR 1325 Introduction to 2D Animation for Games
 - o YEAR 1 WINTER
- BUSI 1130 Introduction to Financial Accounting
 - YEAR 1 WINTER
- BUSI 3730 Creative Problem Solving,
 Entrepreneurship and Imagination o YEAR 3 FALL
- BUSI 2200 Marketing Management O YEAR 2 WINTER
 - Replaces our BUSI 2210 Marketing for IT course in the map but offered for first year students

Description of the ways in which the proposed change will enhance the program and/or opportunities for students

The changes to the curriculum map is intended to balance out our first year such that all aspects of Game Development are represented equally in each semester. For instance with these changes there will be 2 courses in Design, 2 courses in Math, 2 courses in Programming, 2 courses in Art, and 2 courses in Business taken by the students in first year. This will allow a broad set of knowledge and expose all aspects to the students such that they can determine which areas to focus on in higher years through minors.

Replacing BUSI 2210 with BUSI 2200 will ensure we have 2 important fundamental business courses in first year. Similarly, replacing Accounting for IT with Introduction to financial accounting will bring our entrepreneurship side close to the Entrepreneurship major in the BCOM.

Removal of INFR 1300U from the core curriculum allows us to balance out the business side. This course does not provide the fundamental knowledge for our students that is necessary for them to obtain in first year to be successful in the rest of the program. This course would become one of many technical electives in the program and taken in a later year could be used to enhance their skillsets.

BUSI2120 Accounting for IT is replaced with BUSI1130 Introduction to Financial Accounting which will provide more depth to students' accounting knowledge.

Addition of INFR 1325 to the core curriculum will balance out the technical Art aspects of the program and provide fundamentals necessary for students which they currently do not receive. This will also prepare them for INFR 2310 which is historically difficult for students thus this change could increase retention in 2nd year.

Addition of BUSI 3730U to the curriculum is performed in consultation with John Friedlan and Malcolm MacTaggart where we identified this course as a natural extension to the Entrepreneurial finance course and should be thought of as a core entrepreneurship course.

Process of consultation with other units if the change(s) involves students, staff, and/or faculty from other programs or courses

Consultation with the FBIT Academic Advising team to ensure these changes work with pre-req's and credit restrictions and general flow. Consultation with instructor, Malcolm MacTaggart to identify BUSI3730 as a core course.

Analysis of financial and enrolment implications

These proposals have a net-zero financial impact and can only increase retention.

Proposed Implementation Date (state term, e.g. Fall 2017) Fall 2018

Transition Plan (include a plan for all current students in the program, by year level)

None required as this changes the 1st year map mostly and provides more opportunity for choice at the upper years.

Calendar Copy and/or Program Maps (highlight revisions to existing curriculum)

Year 1

Semester 1 (15 credit hours)

- INFR 1020U Essential Mathematics for Games I
- INFR 1100U Introduction to Programming
- INFR 1300U Creative Writing and Narrative Concepts
- NFR 1315U Concept and Graphic Design
- INFR 1330U Basic Introduction to Game Design
- INFR 1395U Game Development Workshop I
- Add: BUSI 1700U Introduction to Entrepreneurship

Semester 2 (15 credit hours)

- General elective
- Add: BUSI1130U Introduction to Financial Accounting
- BUSI 1700U Introduction to Entrepreneurship
- INFR 1325U Introduction to 2D Animation for Games
- INFR 1030U Essential Mathematics for Games II
- INFR 1335U Digital Game Design
- INFR 1396U Game Development Workshop II
- INFR 2140U Object Oriented Programming

Year 2

Semester 1 (15 credit hours)

- <u>BUSI 2550U Introduction to Project Management</u>
- INFR 1350U Introduction to Computer Graphics
- INFR 2310U Computer Animation: Algorithms and Techniques
- INFR 2330U Intermediate Game Design
- INFR 2345U Modelling and Animation Systems I
- INFR 2395U Game Development Workshop I

Semester 2 (15 credit hours)

- <u>BUSI 2210U Marketing in the Information Technology</u>
 <u>Sector</u>
- Add: BUSI2200U Marketing Management
- INFR 2350U Intermediate Computer Graphics
- INFR 2370U Game Sound
- INFR 2396U Game Development Workshop II
- INFR 2810U Computer Architecture
- INFR 2820U Algorithms and Data Structures

Year 3

Semester 1 (15 credit hours)

- General elective
- Add: Open Elective BUSI 2120U Accounting for IT
- INFR 3110U Game Engine Design and Implementation
- INFR 3335U Social and Multiplayer Game Design
- INFR 3345U Modelling and Animation Systems II
- INFR 3395U Game Development Workshop I

Semester 2 (15 credit hours)

- Add: BUSI3730U Creative Problem Solving, Entrepreneurship and Imagination
- <u>BUSI 2700U Entrepreneurial Finance</u>
- INFR 3315U Cinematic Systems Design
- INFR 3350U Games User Research
- INFR 3396U Game Development Workshop II
- INFR 3830U Distributed Systems and Networking

Year 4

Semester 1 (15 credit hours)

- Two technical electives
- BUSI 4340U Business of Gaming
- INFR 4350U Human-Computer Interaction for Games

- INFR 4560U Law and Ethics in Game Development One of:
- <u>BUSI 4798U Incubator I</u> **or**
- BUSI 4990U Capstone Study Project I Semester 2 (15

credit hours)

- Open elective
- Two technical electives
- INFR 4320U Artificial Intelligence for Gaming
- One of:
- BUSI 4799U Incubator II or
- BUSI 4995U Capstone Study Project II

APPROVAL DATES

Curriculum Committee approval	October 23, 2017
Faculty Council approval	November 2, 2017
CPRC Approval	17 November 2017
Submission to Academic Council	

COURSE CHANGE TEMPLATE

For new	courses see New Course Ter	nplate				
Faculty	r: Faculty of Business and I	Г				
Progra	m: Game Development & E	ntrepreneurship				
_	Subject Code and Course Current Full Course Title: Accounting for IT					
⊠ Core	e Elective	Current Short-Form Course Title (max. 30 characters):				
COURSE	CHANGES (check all tha	t apply)				
	Course title	,		Credit weighting		
	Course description			Contact hours		
	Course number			Prerequisites		
	Subject code			Co-requisites		
	Grade Mode (N – alpha gra	ade, P – Pass/Fail)		Cross-listings		
	Learning outcomes			Credit restrictions		
	Course Instructional Method (CLS, HYB, WB1, WEB)			Equivalency Courses		
	Delete course from Academic Calendar		\boxtimes	Delete course from Program only (attach this form to program modification)		
	Supplementary Fees			Teaching and assessment methods		
	Other (please specify)			Term Change		
	PTION AND/OR REASON E/PROGRAM OBJECTIVES		VAYS IN	WHICH IT MAINTAINS/ENHANCES		
Change is to be depth t Entrepr	course from core course to replaced in the curriculum to students' accounting know reneurship program in line v	elective. This applies by BUSI1130U (Intro to wledge than BUSI2120 vith the BComm Entre	o Financi and will	the Game Development Program. This course al Accounting). BUSI1130U provides more help to bring the Game Development & thip major.		
CHANG	E TO CALENDAR DESCRIP	ITON (IT required)	Propose	ed.		
	Core course Replace with BUSI1130U Introduction to Financial Accounting			with BUSI1130U Introduction to Financial		
	E TO CONTACT HOURS (:	fannlicable):	Account	······b		
Lecture	E TO CONTACT HOURS (i	і арріісаме):	Lab			
Tutoria	I		Other			

OTHER CHANGES (if applicable) Prerequisites Co-requisites Credit restrictions Credit exemptions Grading scheme letter grade pass/fail **CHANGES TO LEARNING OUTCOMES (if applicable)** CONSULTATION AND FINANCIAL IMPLICATIONS, WHERE APPROPRIATE N/A **EFFECTIVE SEMESTER (Specify Term e.g. Fall 2017)** Fall 2018 **APPROVAL DATES** Faculty Curriculum Committee approval October 23, 2017 **Faculty Council approval** November 2 2017 Reported to CPRC

17 November 2017

COURSE CHANGE TEMPLATE

For new	courses see New Course Tei	mplate			
Faculty	r: Faculty of Business and I	т			
Progra	m: Game Development & E	ntrepreneurship			
-	t Code and Course er: BUSI 2210U	Current Full Course 1	Γitle: Ma	rketing for IT	
⊠ Core	Current Short-Form Course Title (max. 30 characters): Core				
COURSE	E CHANGES (check all tha	t apply)			
	Course title			Credit weighting	
	Course description			Contact hours	
	Course number			Prerequisites	
	Subject code			Co-requisites	
	Grade Mode (N – alpha gr	ade, P – Pass/Fail)		Cross-listings	
	Learning outcomes	arning outcomes		Credit restrictions	
	Course Instructional Meth WEB)	tructional Method (CLS, HYB, WB1,		Equivalency Courses	
	Delete course from Academic Calendar			Delete course from Program only (attach this form to program modification)	
	Supplementary Fees			Teaching and assessment methods	
	Other (please specify)			Term Change	
			VAYS IN	WHICH IT MAINTAINS/ENHANCES	
Change This cou more d	•	elective. curriculum by BUSI 22 g knowledge than this	course a	orketing Management). BUSI 2200U provides and will help to bring the Game Development burship major.	
CHANG	E TO CALENDAR DESCRIP	TION (if required)			
Curren	t		Propose	ed	
Core	Core Elective				
CHANG	E TO CONTACT HOURS (i	f applicable):			
Lecture	2		Lab		
Tutoria	<u> </u>		Other		

8-B. Course Change Template

OTHER CHANGES (if applicable) Prerequisites Co-requisites Credit restrictions Credit exemptions Grading scheme letter grade pass/fail CHANGES TO LEARNING OUTCOMES (if applicable) CONSULTATION AND FINANCIAL IMPLICATIONS, WHERE APPROPRIATE N/A **EFFECTIVE SEMESTER (Specify Term e.g. Fall 2017)** Fall 2018 **APPROVAL DATES** Faculty Curriculum Committee approval October 23, 2017 **Faculty Council approval** November 2 2017 Reported to CPRC 17 November 2017

COURSE CHANGE TEMPLATE

· acarty	r: Faculty of Business and I	•				
Progra	m: Game Development & E	ntrepreneurship				
Subject Code and Course Current Full Course Title: Number: INFR 1300 Creative Writing & Narrative						
⊠ Core	e 🗆 Elective	Current Short-Form Course Title (max. 30 characters):				
OURSE	CHANGES (check all tha	ıt apply)				
	Course title			Credit weighting		
	Course description			Contact hours		
	Course number			Prerequisites		
	Subject code			Co-requisites		
	Grade Mode (N – alpha gr	rade, P – Pass/Fail)		Cross-listings		
	Learning outcomes			Credit restrictions		
	Course Instructional Method (CLS, HYB, WB1, WEB)			Equivalency Courses		
	Delete course from Academic Calendar		\boxtimes	Delete course from Program only (attach this form to program modification)		
	Supplementary Fees			Teaching and assessment methods		
	Other (please specify)			Term Change		
	PTION AND/OR REASON E/PROGRAM OBJECTIVES		WAYS IN	WHICH IT MAINTAINS/ENHANCES		
Change Remova Narrati fundam rest of student fundam Entrepr with eq 1300 as	e course from core course to course from core course to all of INFR 1300U from the cove (INFR 1300) course and conental knowledge for our state program. We determing that in terms of fundamental mental knowledge than INFF reneurship courses in first your parts of Programming,	o elective. Fore curriculum. As a good determined that this is udents that is necessaled that adding INFR 1 knowledge. INFR 1325 at 1300U. The removal ear. With these chang Design, Technical Art, ovide us with another	ry for the 325 (Intro was high of INFR 1 es, stude Business,	discussed the need for the Creative Writing & course as an elective but does not provide the em to obtain in first year to be successful in the o to 2D animation) would better suit the ner priority in terms of skill-sets and 1.300 also allows us to balance the nts will have a well-balanced first year of study and Fundamentals. Moreover, keeping INFR to offer variety in our electives.		
Current Proposed						

Tutorial	Other			
Core	Elective			
CHANGE TO CONTACT HOURS (if applicable):				
Lecture	Lab			
OTHER CHANGES (if applicable)				
Prerequisites				
Co-requisites				
Credit restrictions				
Credit exemptions				
Grading scheme letter grade pass/fail				
CHANGES TO LEARNING OUTCOMES (if applica	able)			
	J			
CONSULTATION AND FINANCIAL IMPLICATION	IS, WHERE APPROPRIATE			
N/A				
EFFECTIVE SEMESTER (Specify Term e.g. Fall 20	017)			
Fall 2018	,			
APPROVAL DATES				
Faculty Curriculum Committee approval Oct	tober 23, 2017			
Faculty Council approval No	ovember 2, 2017			
Reported to CPRC 17	November 2017			

COURSE CHANGE TEMPLATE

For new courses see New Course Template

Intro to 2D Animation		e Course Chana	e Template			
Faculty: Faculty of Bus						
Full Course Title: Intro	duction t	o 2D Animatior	n for Games			
Short Form Course Titl	e (max 30	characters): I	ntro to 2D Animat	ion		
Subject Code and Cour number: INFR 1325U	se	Cross-listings:		©Core Elective	Credit weight: 3.0	
Contact hours (please Lecture 3hr	indicate r □Lab	number of hour		nent): Other		
PROGRAM(S) (if applied	cable, fo	rm should acc	ompany a progr	am adjustment/proposa	al)	1
Game Development & I	Entreprer	eurship. This c	ourse does not im	pact any other programs.		
CALENDAR DESCRIPTI						1
focus on 2D animation	building o	on concepts lear	ned in previous co	cepts of animation for gan ourses and understanding l ne development pipeline.	•	
Prerequisites	INFR 13	15U: Concept a	nd Graphic Design	l		
Co-requisites						
Credit restrictions						
Credit exemptions						
Grading scheme	⊠ lett	ter grade	pass/fail			
LEARNING OUTCOME	S (this se	ction is requi	red)			
Students will be able to	:					
Experiment with form r	-		•			
Practice the animation	-		while maintaining	structure		
Define the 12 principles						
Identify the 12 animatic						
Apply animation princip Create a 2D sprite-base				25		
Recognize principles of	-	_				
Apply the skills learned		-	_	iects		
COURSE INSTRUCTION				,		
(check all that may a		CLS (in-	-class)	HYB (in-class and online)		
		☐ WB1 (sy	ynchronous onlii	ne delivery)		
☐ WEB (asynchronous online delivery)						
TEACHING AND ASSES	SMENT	METHODS				1

8-A New Course Template Labs and Tutorials.

UOIT Quality Assurance Handbook Teaching Methods: Lecture, Demonstrations, Application.

Assessment: Projects, Assignments, Quizzes.

CONSULTATION AND FINANCIAL IMPLICATIONS, WHERE APPROPRIATE

This course replaces an elective but builds on their skills and knowledge formed in the first semester course which is invaluable to their education and careers.

EFFECTIVE SEMESTER (Specify Term e.g. Fall 2017)

Winter 2019

APPROVAL DATES

Curriculum Committee approval	October 23, 2017
Faculty Council approval	November 2, 2017
Submission to CPRC/GSC	17 November 2017



FACULTY OF BUSINESS AND INFORMATION TECHNOLOGY

8-A New Course Template Quality Assurance Handbook

UOIT

Game Development & Entrepreneurship Bachelor of Information Technology

2018 Start – CHANGES AS MARKED

REMOVE FROM MAP

NEW TO MAP

NEW COURSE

MOVED IN

MAP

					INFR 1300U Creative Writing
Year 1	INFR 1330U	INFR 1020U	INFR 1100U	INFR 1315U	and Narrative
	Introduction to	Essential Math	Introduction to	Concept and	D. 101 4 = 001 1
FALL	Game Design	for Games I	Programming	Graphic Design	BUSI 1700U
		y		, ,	Introduction to
		INFR 1395L	Game Development	Workshop I BUSI 1700U	Entrepreneurship
	INFR 1335U	INFR 1030U	INFR 2140U	Introduction to	General Elective BUSI 1130U
Year 1				Entrepreneurship	
WINTER	Digital Game	Essential Math	Object Oriented	INFR 1325U	Introduction to
	Design	for Games II	Programming	2D Animation	Financial Accountin
g Principl	es INFR 1396U Ga	 me Development Wor	kshop II		
		INFR 2310U			
	INFR 1350U	Computer	INFR 2345U	INFR 2330U	BUSI 2550U
Year 2		·	Modelling		Introduction to
	Introduction to	Animation:		Intermediate Game	

FALL			and Animation		Project
	Computer Graphics	Algorithms and	Systems I	Design	Management
		Techniques			
		INFR 2395	U Game Development \	Workshop I	
					BUSI 2210U
	INFR 2350U		INFR 2810U	INFR 2820U	Marketing for I.T.
Year 2		INFR 2370U			
	Intermediate		Computer	Algorithms and	BUSI 2200U
WINTER		Game Sound			
	Computer Graphics		Architecture	Data Structures	Marketing
					Management
		INFR 23961	J Game Development V	Workshop II	
					General Elective
	INFR 3110U	INFR 3345U	INFR 3335U		BUSI 3730U
Year 3	Game Engine	Modelling	Social &	Consul Florida	Creative Problem
5 4 1 1	Davids and	and Antonolis	M. Ittala and Carra	General Elective	Californ
FALL	Design and	and Animation	Multiplayer Game		Solving,
	Implementation	Systems II	Design		Entrepreneurship
		INIED 220E	II Cama Davalanmant I	Maylahan I	and Imagination
		INFR 3395	U Game Development \	workshop i	
			INFR 3830U		
	INFR 3315U	INFR 3350U		BUSI 2700U	
Year 3			Distributed		
	Cinematic Systems	Game User		Entrepreneurial	Open Elective
WINTER	Systems and De	esign Research	Finance		
			Networking		

INFR 3396U Game Development Workshop II

Year 4 FALL	INFR 4350U Human-Computer Interaction for Games	INFR 4560U Law and Ethics of Game Development	BUSI 4340U Business of Gaming	Technical Elective	Technical Elective
			BUSI 4990U Capstone	1	
Year 4 WINTER	INFR 4320U Artificial Intelligence for Gaming	BUSI 4995U Capstone II	Technical Elective	Technical elective	Open Elective

Information contained herein is subject to change at the discretion of the Faculty of Business and I.T., and is distributed to students for course schedule planning assistance. Any questions should be addressed to the FBIT Academic Advising office (fbitadvising@uoit.ca).