Title: Bachelor of Computing Systems

FINAL

Version: 0.1

ISCG7441: Advanced Game Programming

Course number: ISCG7441 Level: 7 Credits: 15

Main programme: BCS Delivery: One Semester (Full-time)

 Endorsement:
 Elective
 Hours directed:
 39

 Other programmes:
 GDCMP
 Hours self-directed:
 111

 Prerequisites:
 For BCS: ISCG6442
 Total hours:
 150

For GDCMP: ISCG6442 or as approved by the Programme Leader

Co-requisites: n/a Number of weeks: 18 weeks (full-time)

Restrictions: n/a

Entry requirements:

Students are expected to adhere to Unitec's policy on conduct in respect of staff, fellow students, and in the use of resources and facilities.

NZQA Level Descriptor:

	Knowledge	Skills	Application
7	knowledge of a major discipline with areas of specialisation in depth	require a command of highly specialised technical or scholastic and basic research	in planning, resourcing and managing processes
	specialisation in deput	skills across a major discipline	within broad parameters and functions with complete accountability for determining, achieving and evaluating personal and/or group outcomes
	the analysis, transformation and evaluation of abstract data and concepts	involve the full range of procedures in a major discipline	
	the creation of appropriate responses to resolve given or contextual abstract problems	are applied in complex, variable and specialised contexts	

Course aim: to provide students with the ability to investigate and use advanced programming techniques to solve complex game development problems.

Learning outcomes:

- 1. Utilise, review, and enhance graphical and animation techniques to support game projects.
- 2. Utilise, review, and enhance physics and mathematical techniques to support game projects.
- 3. Document, create, and test a video game prototype or proof of concept.
- 4. Document a post-mortem of findings regarding the rapid prototype.

