## COMP 3021 SPECIAL EFFECTS PROGRAMMING

**Credit Points 10** 

Legacy Code 301173

Coordinator Anton Bogdanovych (https://directory.westernsydney.edu.au/search/name/Anton Bogdanovych/)

**Description** This unit will focus on develop programming code to write shaders to create special effects, such as fog, shadows, fire, water, clouds, lightning, motion blur and reflections. These type of shaders are often seen in games and movies. Students will also learn about generic programming algorithms involved in building special effects.

School Computer, Data & Math Sciences

**Discipline** Computer Graphics

Student Contribution Band HECS Band 2 10cp

Check your HECS Band contribution amount via the Fees (https://www.westernsydney.edu.au/currentstudents/current\_students/fees/) page.

Level Undergraduate Level 3 subject

## **Learning Outcomes**

On successful completion of this subject, students should be able to:

- Create special effects with SeShaders f and test under controlled scenarios
- 2. Demonstrate the ability to program a custom �eShader�f
- Implement common special effects and test under controlled scenarios
- 4. Develop transferrable practical skills in programming special effects for games

## **Subject Content**

Shader Programming Basics Creating Fog Simulating Fire Writing Water shaders Generating Clouds Motion Blur Reflections

## Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

	Item	Length	Percent	Threshold	Individual/ Group Task
	Workshop Portfolios	1000 lines of code	50	N	Individual
	Final Exam	2 Hours	50	N	Individual

**Teaching Periods**