School of Humanities Creative Industries SocialSci

DESN3802: 3D Environments

Newcastle City Precinct Semester 2 - 2023



The School of Humanities, Creative Industries and Social Sciences is committed to providing an inclusive environment in which all cultures are accorded respect and all students and staff are expected to act with honesty, fairness, trustworthiness and accountability in dealings with others. The School recognises and respects the unique histories and cultures of Aboriginal and Torres Strait Islander peoples, their unbroken relationship with the lands and the waters of Australia over millennia, and the validity of Aboriginal ways of knowing. We are dedicated to reconciliation and to offering opportunities for Aboriginal and Torres Strait Islander peoples to access and succeed in higher education.

OVERVIEW

Course Description 3D Environments explores designing objects, environments and scenarios for a range of physical and virtual applications. Students will learn techniques suitable for a variety of outcomes including animation, games and motion graphics with a primary focus on designing environments, digital set design and landscapes. The course introduces students to fundamental concepts related to creating virtual and physical spaces through designing experimental 3D environments. Students will be introduced to virtual production and real-time 3D concepts through games engines. There is a strong focus on analysing and critiquing both historical and contemporary examples of virtual design, installation and light projections. Student projects may involve work integrated or research integrated learning opportunities; projects that involve external stakeholders; group/collaborative projects; speculative or more theoretically oriented projects; professionally oriented projects; projects based on competition or award briefs. Requisites Students must have successfully completed at least 40 units at the 2000 level to enrol in this course. Assumed Knowledge It is assumed students will have a basic knowledge of digital image manipulation software for either still or moving images.

Contact Hours Newcastle City Precinct Lecture Face to Face On Campus 1 hour(s) per Week for 2 Weeks starting Week 1 Weeks 1 and 7 Self-Directed Learning Face to Face On Campus 1 hour(s) per Week for 10 Weeks

> **Tutorial** Face to Face On Campus 2 hour(s) per Week for 10 Weeks starting Week 2 Weeks 2-6 and Weeks 8-12

www.newcastle.edu.au CRICOS Provider 00109J

Unit Weighting Workload 10 Students are required to spend on average 120-140 hours of effort (contact and non-contact) including assessments per 10



unit course.

CONTACTS

Course	Coordinator
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Newcastle City Precinct Mr Jack Mcgrath Jack.Mcgrath@newcastle.edu.au Consultation: By appointment, please email to set up a time for a meeting

Teaching StaffOther teaching staff will be advised on the course Canvas site.

School Office

School of Humanities Creative Industries and Social Sciences NU Space, Level 4 409 Hunter Street Newcastle HCISS@newcastle.edu.au +61 4985 4500

SYLLABUS

Course Content	 Theory and practise of virtual environment design Creating physical and virtual spaces for animation, games and installations Virtual production design concepts and principals Designing for virtual production content and/or hybrid digital/physical creative projects 				
Course Learning Outcomes	On successful completion of this course, students will be able to: 1. Create 3D sets, environments and landscapes				
	2. Analyse, breakdown and critique professional examples of virtual design				
	3. Apply the fundamentals of environment design to a creative production concept				
	4. Design physical and virtual spaces for animation, installation, film and games				
Course Materials	Other Resources: - See Canvas for details				

ASSESSMENTS

This course has 4 assessments. Each assessment is described in more detail in the sections below.

	Assessment Name	Due Date	Involvement	Weighting	Learning Outcomes
1	Journal 20%	Friday the 27th of October by 5pm	Individual	20	1, 2, 3
2	Project 1 30%	Weeks 3, 5 & 7 (Friday 5pm)	Individual	30	1, 2, 3
3	Presentation 20%	Week 9 in class	Individual	20	3
4	Project 2 30%	Friday the 27 th of October by 5pm	Individual	30	1, 3, 4

Late Submissions

The mark for an assessment item submitted after the designated time on the due date, without an approved extension of time, will be reduced by 10% of the possible maximum mark for that assessment item for each day or part day that the assessment item is late. Note: this applies equally to week and weekend days.



Assessment 1 - Journal 20%

Assessment Type Process Journal Description Creation of a process

Creation of a process journal that details the decision making, references, experiments, and technical process behind the making of their work throughout the semester. Students must be keeping notes and documenting their work throughout the course in preparation for this task. Detailed brief will be available on Canvas.

Weighting20%Length15-20 A4 pages (landscape)Due DateFriday the 27th of October by 5pmSubmission MethodOnlineAssessment CriteriaRubric – See Canvas for detailsReturn MethodOnlineFeedback ProvidedOnline

Assessment 2 - Project 1 30%

Assessment Type Project Description Project Three 3D environment exercises to be completed and submitted based on tutorial exercises. Detailed briefs will be available on Canvas.

Assessment 3 - Presentation 20%

Assessment Type Description

Presentation The Presentation is a proposal for Project 2. The presentation must be accompanied with slides that include evidence of research for the project. More information detailed brief available on Canvas. Slide show presentation must also be submitted to Canvas as a multipage PDF.

Weighting	20%
Length	5-7 minutes
Due Date	Week 9 in class
Submission Method	Online & In class
Assessment Criteria	Rubric – See Canvas for details
Return Method	Online
Feedback Provided	Online & In class

Assessment 4 - Project 2 30%

Assessment Type Project Description 3D Environment major work. The work must demonstrate at least two techniques covered in the course. The work must be no longer than 100secs including titles min 60secs including max of 10 seconds of titles. Detailed brief available on Canvas.

Weighting	30%
Length	60-100 seconds
Due Date	Friday the 27 th of October by 5pm
Submission Method	Online
Assessment Criteria	Rubric – See Canvas for details
Return Method	Online
Feedback Provided	Online



ADDITIONAL INFORMATION

Grading Scheme

This course	is	araded	as	follows:	
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	Range of	Grade	Description	
	Marks 85-100	High Distinction (HD)	Outstanding standard indicating comprehensive knowledge and understanding of the relevant materials; demonstration of an outstanding level of academic achievement; mastery of skills*; and achievement of all assessment objectives.	
	75-84	Distinction (D)	Excellent standard indicating a very high level of knowledge and understanding of the relevant materials; demonstration of a very high level of academic ability; sound development of skills*; and achievement of all assessment objectives.	
	65-74	Credit (C)	Good standard indicating a high level of knowledge and understanding of the relevant materials; demonstration of a high level of academic achievement; reasonable development of skills*; and achievement of all learning outcomes.	
	50-64	Pass (P)	Satisfactory standard indicating an adequate knowledge and understanding of the relevant materials; demonstration of an adequate level of academic achievement; satisfactory development of skills*; and achievement of all learning outcomes.	
	0-49	Fail (FF)	Failure to satisfactorily achieve learning outcomes. If all compulsory course components are not completed the mark will be zero. A fail grade may also be awarded following disciplinary action.	
	*Skills are those identified for the purposes of assessment task(s).			
Communication Methods	Communication methods used in this course include:			
Course Evaluation	Each year feedback is sought from students and other stakeholders about the courses offered in the University for the purposes of identifying areas of excellence and potential improvement.			
Oral Interviews (Vivas)	As part of the evaluation process of any assessment item in this course an oral examination (viva) may be conducted. The purpose of the oral examination is to verify the authorship of the material submitted in response to the assessment task. The oral examination will be conducted in accordance with the principles set out in the <u>Oral Examination (viva)</u> <u>Procedure</u> . In cases where the oral examination reveals the assessment item may not be the student's own work the case will be dealt with under the <u>Student Conduct Rule</u> .			
Academic Misconduct	All students are required to meet the academic integrity standards of the University. These standards reinforce the importance of integrity and honesty in an academic environment. Academic Integrity policies apply to all students of the University in all modes of study and in all locations. For the Student Academic Integrity Policy, refer to https://policies.newcastle.edu.au/document/view-current.php?id=35.			
Adverse Circumstances	 The University acknowledges the right of students to seek consideration for the impact of allowable adverse circumstances that may affect their performance in assessment item(s). Applications for special consideration due to adverse circumstances will be made using the online Adverse Circumstances system where: the assessment item is a major assessment item; or the assessment item is a minor assessment item and the Course Co-ordinator has specified in the Course Outline that students may apply the online Adverse Circumstances system; you are requesting a change of placement; or 			
	 4. the course has a compulsory attendance requirement. Before applying you must refer to the Adverse Circumstance Affecting Assessment Items Procedure available at: https://policies.newcastle.edu.au/document/view-current.php?id=236 			



Important Policy Information

The Help button in the Canvas Navigation menu contains helpful information for using the Learning Management System. Students should familiarise themselves with the policies and procedures at https://www.newcastle.edu.au/current-students/no-room-for/policies-and-procedures that support a safe and respectful environment at the University.

This course outline was approved by the Head of School. No alteration of this course outline is permitted without Head of School approval. If a change is approved, students will be notified and an amended course outline will be provided in the same manner as the original.

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