



## UNSW Course Outline

# DDES1110 3D Visualisation 1: 3D Virtual Objects - 2024

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## General Course Information

**Course Code :** DDES1110

**Year :** 2024

**Term :** Term 2

**Teaching Period :** T2

**Is a multi-term course? :** No

**Faculty :** Faculty of Arts, Design and Architecture

**Academic Unit :** School of Art & Design

**Delivery Mode :** In Person

**Delivery Format :** Standard

**Delivery Location :** Paddington

**Campus :** Paddington

**Study Level :** Undergraduate

**Units of Credit :** 6

### Useful Links

[Handbook Class Timetable](#)

## Course Details & Outcomes

### Course Description

This foundation studio course will develop your understanding of creative 3D computer visualisation. It will provide you with live, hands-on experience of the key technologies and creative thinking that is required when designing 3D virtual objects. You will be introduced to the

historical and contemporary developments in 3D Visualisation and Computer Generated Imagery (CGI). Practical studio workshops will explore 3D CGI workflow for a variety of digital media, 3D modelling techniques, the application of foundational art and design theoretical thinking, and the previsualisation and planning of a virtual object. The course will primarily focus on constructing virtual objects for pre-rendering screen-based output. At the end of the course you will have planned and created a 3D virtual object through the application of a series of techniques and methods, giving you an introductory experience of the field of computer modelling.

## Course Aims

This course is the first course within the 3D Visualisation disciplinary specialisation studio in the Bachelor of Design program. The aim of the course is to provide a foundational understanding of creative led 3D modelling and visualisation processes for digital media output, giving students introductory knowledge of computer modelling and realising 3D virtual objects.

## Relationship to Other Courses

Students can go onto DDES2110 3D Visualisation 2, an intermediate course.

## Course Learning Outcomes

Course Learning Outcomes
CL01 : Establish foundational self-directed previsualisation and data gathering processes to create a 3D virtual object.
CL02 : Communicate a foundation level understanding of theoretical and conceptual thinking when working in the field of creative-led 3D computer visualisation.
CL03 : Apply 3D Computer Generated Imagery workflow from planning to execution.

Course Learning Outcomes	Assessment Item
CL01 : Establish foundational self-directed previsualisation and data gathering processes to create a 3D virtual object.	• Previsualisation: Narrative and Data Gathering
CL02 : Communicate a foundation level understanding of theoretical and conceptual thinking when working in the field of creative-led 3D computer visualisation.	• Object 3D Visualisation • Realisation and Reflection • Previsualisation: Narrative and Data Gathering
CL03 : Apply 3D Computer Generated Imagery workflow from planning to execution.	• Object 3D Visualisation

# Learning and Teaching Technologies

Moodle - Learning Management System

## Learning and Teaching in this course

This course adopts principles of [Universal Design for Learning](#) as a way to provide an inclusive learning environment. This course works on establishing networks and processes that enable you to thrive throughout your study. Building community is fundamental to your success as a student and in your working life. You will work in groups in tutorial classes to experiment and explore ideas in a peer learning environment.

## Assessments

### Assessment Structure

Assessment Item	Weight	Relevant Dates
Previsualisation: Narrative and Data Gathering Assessment Format: Individual Short Extension: Yes (3 days)	30%	Due Date: 17/06/2024 11:30 PM
Object 3D Visualisation Assessment Format: Individual Short Extension: Yes (3 days)	50%	Due Date: 07/08/2024 11:30 PM
Realisation and Reflection Assessment Format: Individual Short Extension: Yes (3 days)	20%	Due Date: 09/08/2024 11:30 PM

## Assessment Details

### Previsualisation: Narrative and Data Gathering

#### Assessment Overview

The intention of this project is to explore design themes and how to begin to apply them to asset design. Using your research and previsualisation skills, you are asked to reimagine an everyday object through the lens of a selected design movement examined in class and communicate your research process.

*Feedback will be provided on a regular basis in tutorial/studio through discussion with peers and tutors. Summative assessment and feedback will be provided digitally based on the rubric.*

#### Course Learning Outcomes

- CLO1 : Establish foundational self-directed previsualisation and data gathering processes to create a 3D virtual object.

- CLO2 : Communicate a foundation level understanding of theoretical and conceptual thinking when working in the field of creative-led 3D computer visualisation.

#### Detailed Assessment Description

See moodle for detailed assessment brief

#### Submission notes

Submit on Moodle via Assessments Hub > Assessment 1

#### Assessment information

See Moodle for detailed assessment brief

#### Assignment submission Turnitin type

Not Applicable

### **Object 3D Visualisation**

#### Assessment Overview

This assessment will guide students to the realisation of their 3D virtual model. Students will draw on the background research they have accumulated and take into consideration all tests they have carried out during the previsualisation phase.

*Feedback will be provided on a regular basis in tutorial/studio through discussion with peers and tutors. Summative assessment and feedback will be provided digitally based on the rubric.*

#### Course Learning Outcomes

- CLO2 : Communicate a foundation level understanding of theoretical and conceptual thinking when working in the field of creative-led 3D computer visualisation.
- CLO3 : Apply 3D Computer Generated Imagery workflow from planning to execution.

#### Detailed Assessment Description

See Moodle for detailed assessment brief

#### Submission notes

Submit on Moodle via Assessments Hub > Assessment 2

#### Assessment information

See Moodle for detailed brief

#### Assignment submission Turnitin type

Not Applicable

### Hurdle rules

Assessment 1 is a hurdle requirement for this assessment.

## **Realisation and Reflection**

### Assessment Overview

The purpose of this assessment is for students to communicate the realised outcome and the conceptual narrative explored in the previous two assessments.

*Feedback will be provided on a regular basis in tutorial/studio through discussion with peers and tutors. Summative assessment and feedback will be provided digitally based on the rubric.*

### Course Learning Outcomes

- CL02 : Communicate a foundation level understanding of theoretical and conceptual thinking when working in the field of creative-led 3D computer visualisation.

### Detailed Assessment Description

You will create a 5-minute video with visual aides /slides and voice-over presentation must include personal reflections with experiments and techniques discussed. Students will also communicate how they might improve their individual outcomes and the lessons learned for any future 3D visualisation projects. All students are required to prepare visual material to support their presentation.

### Submission notes

Submit on Moodle via Assessments Hub >Assessment 3

### Assessment information

See Moodle for detailed brief

### Assignment submission Turnitin type

Not Applicable

### Hurdle rules

Assessment 1 and 2

## **General Assessment Information**

See Moodle for detailed brief

### Grading Basis

Standard

# Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 27 May - 2 June	Topic	Introduction to course and Maya.
Week 2 : 3 June - 9 June	Topic	Modelling
Week 3 : 10 June - 16 June	Topic	Modelling continued.. and Introduction to UV's
Week 4 : 17 June - 23 June	Topic	Hard edge Modelling
Week 5 : 24 June - 30 June	Topic	UV Tools
Week 6 : 1 July - 7 July	Other	Flexible study week. No classes
Week 7 : 8 July - 14 July	Topic	UV's and texturing workflow
Week 8 : 15 July - 21 July	Topic	Digital Sculpting
Week 9 : 22 July - 28 July	Topic	Lighting for 3D
Week 10 : 29 July - 4 August	Topic	Render passes and compositing in Photoshop
Week 11 : 5 August - 11 August	Assessment	Assessment 2 is due Monday 22nd April Assessment 3 is due Wednesday 24th April

## Attendance Requirements

Students are strongly encouraged to attend all classes and review lecture recordings.

## Course Resources

### Prescribed Resources

See Moodle for extensive week by week videos

### Recommended Resources

See Moodle for extensive resources

## Additional Costs

You should consider what the minimum specification for running Maya 2024 on your own computer outside of class time. These minimum specifications can be found [here](#). You may need to outsource rendering for Assessment 2 to an online render farm.

## Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Karen Kriss		Paddington F214	+61 2 9065 9734	By email appointment	Yes	Yes

# Other Useful Information

## Academic Information

Due to evolving advice by NSW Health, students must check for updated information regarding online learning for all Arts, Design and Architecture courses this term (via Moodle or course information provided).

Please see: <https://www.unsw.edu.au/arts-design-architecture/student-life/resources-support/protocols-guidelines> for essential student information relating to:

- UNSW and Faculty policies and procedures;
- Student Support Services;
- Dean's List;
- review of results;
- credit transfer;
- cross-institutional study and exchange;
- examination information;
- enrolment information;
- Special Consideration in the event of illness or misadventure;
- student equity and disability;

And other essential academic information.

## Academic Honesty and Plagiarism

Plagiarism is using the words or ideas of others and presenting them as your own. It can take many forms, from deliberate cheating to accidentally copying from a source without acknowledgement.

UNSW groups plagiarism into the following categories:

- Copying: Using the same or very similar words to the original text or idea without acknowledging the source or using quotation marks. This includes copying materials, ideas or concepts from a book, article, report or other written document, presentation, composition, artwork, design, drawing, circuitry, computer program or software, website, internet, other electronic resource, or another person's assignment without appropriate acknowledgement.
- Inappropriate paraphrasing: Changing a few words and phrases while mostly retaining the original information, structure and/or progression of ideas of the original without acknowledgement. This also applies in presentations where someone paraphrases another's ideas or words without credit and to piecing together quotes and paraphrases into a new whole, without appropriate referencing.

- Collusion: Working with others but passing off the work as a person's individual work. Collusion also includes providing your work to another student for the purpose of them plagiarising, paying another person to perform an academic task, stealing or acquiring another person's academic work and copying it, offering to complete another person's work or seeking payment for completing academic work.
- Inappropriate citation: Citing sources which have not been read, without acknowledging the "secondary" source from which knowledge of them has been obtained.
- Duplication ("self-plagiarism"): Submitting your own work, in whole or in part, where it has previously been prepared or submitted for another assessment or course at UNSW or another university.

The UNSW Academic Skills support offers resources and individual consultations. Students are also reminded that careful time management is an important part of study. One of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting and proper referencing of sources in preparing all assessment items. UNSW Library has the ELISE tool available to assist you with your study at UNSW. ELISE is designed to introduce new students to studying at UNSW, but it can also be a great refresher during your study.

Completing the ELISE tutorial and quiz will enable you to:

- analyse topics, plan responses and organise research for academic writing and other assessment tasks
- effectively and efficiently find appropriate information sources and evaluate relevance to your needs
- use and manage information effectively to accomplish a specific purpose
- better manage your time
- understand your rights and responsibilities as a student at UNSW
- be aware of plagiarism, copyright, UNSW Student Code of Conduct and Acceptable Use of UNSW ICT Resources Policy
- be aware of the standards of behaviour expected of everyone in the UNSW community
- locate services and information about UNSW and UNSW Library

### **Use of AI for assessments**

As AI applications continue to develop, and technology rapidly progresses around us, we remain committed to our values around academic integrity at UNSW. Where the use of AI tools, such as ChatGPT, has been permitted by your course convener, they must be properly credited and your submissions must be substantially your own work.

In cases where the use of AI has been prohibited, please respect this and be aware that where unauthorised use is detected, penalties will apply.



## Submission of Assessment Tasks

### Turnitin Submission

If you encounter a problem when attempting to submit your assignment through Turnitin, please telephone External Support on 9385 3331 or email them on [externalteltsupport@unsw.edu.au](mailto:externalteltsupport@unsw.edu.au)

Support hours are 8:00am – 10:00pm on weekdays and 9:00am – 5:00pm on weekends (365 days a year). If you are unable to submit your assignment due to a fault with Turnitin, you may apply for an extension, but you must retain your ticket number from External Support (along with any other relevant documents) to include as evidence to support your extension application. If you email External Support, you will automatically receive a ticket number, but if you telephone, you will need to specifically ask for one. Turnitin also provides updates on their system status on Twitter.

Generally, assessment tasks must be submitted electronically via either Turnitin or a Moodle assignment. In instances where this is not possible, alternative submission details will be stated on your course's Moodle site. For information on how to submit assignments online via Moodle: <https://student.unsw.edu.au/how-submit-assignment-moodle>

### Late Submission Penalty

UNSW has a standard late submission penalty of:

- 5% per calendar day,
- for all assessments where a penalty applies,
- capped at five calendar days (120 hours) from the assessment deadline, after which a student cannot submit an assessment, and
- no permitted variation.

Students are expected to manage their time to meet deadlines and to request [Special Consideration](#) as early as possible before the deadline. Support with [Time Management is available here](#).

## School-specific Information

### Risk of Failure Warnings

If you are at risk of failing the course, because of lack of attendance, low marks in assignments, failing to submit assignments, or lack of participation or engagement, you may be notified by email. Please ensure you read your university email, and respond to any official risk of failure warning promptly. NOTE – if the warning email is sent to your UNSW e-Mail address, it is considered as being read by you whether you check your UNSW email or not.

## **Late Submission Penalties**

If you believe that circumstances will prevent you from submitting an assessment on time, please notify your course convenor as soon as possible. There will be penalties applied for being late and a clear 'no later than' date beyond which submission won't be accepted. Where a Special Consideration is not applied for, and a student assessment is late, the following guidelines apply:

1. Up to 5 days after due date, a penalty of 5% (of maximum mark for assignment) will be applied for each day late (e.g. an assignment that is 3 days late would have its mark reduced by 15%). Please note - for the purpose of deduction calculation, a 'day' is each 24-hour period (or part thereof) past the stipulated deadline for submission within the calendar year (including weekends and public holidays). Task with a percentage mark - If the task is marked out of 100%, late submission will attract a deduction of 5% from the mark awarded to the student for every 24-hour period (or part thereof) past the stipulated deadline.

Example: A student submits an essay 48 hours and 10 minutes after the stipulated deadline. The essay is marked out of 100%. A 3 day late penalty will be applied ( $3 \times 5\% = 15\%$ ). The essay receives a mark of 68%. The student's mark will therefore be reduced to 53% ( $68\% - 15\%$ ).

2. Beyond 5 days late, no submission will be accepted.

## **Special Consideration**

Please note that the University's Special Consideration process allows students to apply for an extension within 3 days of the assessment due date. This provides for more extensive extensions, subject to documentation, and Course Convenor approval. You can apply for special consideration online through my.UNSW.edu.au. More information about special consideration can be found here: <https://www.student.unsw.edu.au/special-consideration>

NOTE: If you are experiencing issues related to your access to class material or difficulty with technology, make sure you notify your lecturer as soon as possible, well before any assessment due date. Last minute requests for extensions due to computer failure, file corruption, printing

problems etc. do not qualify students for special consideration or extensions. Students are expected to maintain regular backups of their work at all times.

## **Educational adjustments**

Educational adjustments can be applied to assessments if you are living with a disability, a long term medical condition, a mental health condition, and/or are a carer of individuals with a disability. The Equitable Learning Service (ELS) determines adjustments based on medical documentation and communicates these via an Equitable Learning Plan (ELP). To receive educational adjustments for equitable learning support, you must first register with Equitable Learning Services (ELS). More information about Equitable Learning Services can be found here <https://student.unsw.edu.au/els>

## **Supplementary Assessment**

Supplementary assessments are available to students in this course who have failed an assessment but have subsequently had an application for Special Consideration approved by the university. The supplementary assessment may take a different form than the original assessment and will be defined by the course convenor - but it will address the same learning outcomes as the original assessment. If Special Consideration has not been awarded, the maximum mark that may be awarded for a supplementary assessment is 50% of the full assessment mark.

## **Academic Honesty and Plagiarism**

Plagiarism is taking the ideas, words, images, designs or objects of others and passing them off as your own. Plagiarism is a type of intellectual theft. Plagiarism can take many forms, from deliberate cheating to accidentally copying from a source without acknowledgement. Plagiarism can have serious consequences, so it is important that students be aware of what it is, and how to avoid it. All written submissions are automatically checked for plagiarism using the Turnitin site. For further information, please see the Academic Integrity & Plagiarism website <https://www.student.unsw.edu.au/plagiarism>.

## **Referencing Requirements for Assessments**

Your course convenor will inform you what referencing system this course follows. Useful guidelines on how to reference according to various systems can be found at: <https://student.unsw.edu.au/referencing>.

You may follow these guidelines in your assessment tasks, or seek additional advice from your lecturer. Styles for Endnote are downloadable from the Endnote website. Accurate and correct referencing is an important academic prerequisite at University level, and if your work does not meet these requirements, it may be marked down, or in more serious cases, it may be treated as an instance of plagiarism and academic dishonesty.

## Use of Generative AI

As AI applications continue to develop, and technology rapidly progresses around us, we remain committed to our values around academic integrity at UNSW. Your work must be your *own* and where the use of AI tools, such as ChatGPT, have been permitted by your course convener, they must be properly credited and your submissions must be substantially your own work. In cases where the use of AI has been prohibited, please respect this and be aware that where unauthorised use is detected, penalties will apply. If in doubt, please seek advice from the Course Convenor prior to using generative AI tools.

<https://www.student.unsw.edu.au/assessment/ai>

## Health and Safety

Ensuring student and staff health and safety is very important at UNSW Art & Design. Health and safety is everyone's responsibility. As a student, you have a responsibility not to do anything that risks your own health and safety, or the health or safety of your fellow students, staff members or visitors. This means, for example, exiting the building during a fire drill; wearing personal protective equipment and clothing (PPEC) when staff or signage instructs you to do so; undertaking induction to using equipment or carrying out processes that require specific knowledge; and reporting hazards or incidents to your lecturer or supervisor as soon as you become aware of them. For more information, please see <https://safety.unsw.edu.au/>.

## Additional Support and Resources

At UNSW you can also find support and resources if you need help with your personal life, getting your academic success on track or just want to know how to stay safe. See <https://www.student.unsw.edu.au/wellbeing>.

Additional support for students is available by contacting the following centres:

- Student Support and Development <https://www.student.unsw.edu.au/support>
- Student Support Advisors: <https://www.student.unsw.edu.au/advisors>

- Mental Health Support: <https://www.student.unsw.edu.au/mental-health-support>
- Academic Skills and Support <https://www.student.unsw.edu.au/skills>
- UNSW IT Service Centre <https://www.myit.unsw.edu.au/>
- Student Gateway: <https://www.student.unsw.edu.au/>
- Equitable Learning Services: <https://www.student.unsw.edu.au/equitable-learning>
- Faculty Resources and Support: <https://www.unsw.edu.au/arts-design-architecture/student-life/resources-support>
- Arc: <https://www.arc.unsw.edu.au/>

## After Hours Access to the Paddington Campus

The core operating hours for the Paddington Campus are below. All students have access to the campus during these hours:

- Monday to Friday 0800 – 2100
- Saturday 0900 – 1700

Some students are permitted to have “After Hours Access” (AHA) to the campus upon completion of a series of inductions. The inductions are dependent on location, as well as the types of activities undertaken in those locations. The first of these is this Primary Induction, and this must be completed online <https://my.artdesign.unsw.edu.au>. All students requiring AHA are required to complete this induction. The Primary Induction gives access to the following Low Risk areas:

### Post Graduate Students

- PG Research students – Level 4 F Block, Computer Labs and Learning Commons
- Master of Design students – Level 3 D Block, Computer Labs and Learning Commons
- Master of Curating and Cultural Leadership students – D207, Computer Labs and Learning Commons

### Honours Students

- Fine Arts – Level 3 F Block, Computer Labs and Learning Commons
- Design – Level 1 E Block, Computer Labs and Learning Commons
- Media Arts – Level 3 F Block, Computer Labs and Learning Commons

Subsequent inductions are workshop and lab specific, and are conducted face-to-face by the UNSW Art & Design Technical staff. Students and staff must first successfully complete the Primary Induction before requesting a Workshop/Lab specific Induction.

## School Contact Information

UNSW School of Art & Design

Faculty of Arts, Design & Architecture

Paddington Campus

Cnr Greens Rd & Oxford Street

Paddington NSW 2021

[ad.generaladmin@unsw.edu.au](mailto:ad.generaladmin@unsw.edu.au)