



## UNSW Course Outline

# DDES2150 Interaction 2: Design Methodologies - 2024

Published on the 29 Jan 2024

## General Course Information

**Course Code :** DDES2150

**Year :** 2024

**Term :** Term 1

**Teaching Period :** T1

**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 intermediate course within the Interaction disciplinary studio will introduce you to the formal methodologies of interaction design. Building on the principles and practices acquired in the introductory course, a holistic, situated approach to technology will be used as a framework to

look at how new designs work and are developed in industry. You will examine design probes, need finding and user evaluation studies, and investigate case studies to understand how individual designers innovate, adapt and respond to multiple constraints. Through the implementation of iterative design processes such as the interaction design lifecycle model, you will learn to evaluate the feasibility of projects and adapt project goals. Beginning with identifying users' needs, design development, prototyping, and testing of new designs, your work will culminate in a working prototype, communicated through text, video and/or interactive demonstrations to clearly explain the design concept.

## Course Aims

This course is the second course within the Interaction disciplinary studio in the Bachelor of Design program. The aim of the course is to develop the intermediate knowledge, skills and attributes required to plan and execute the interaction design iterative process in a real-world context.

## Course Learning Outcomes

Course Learning Outcomes
CLO1 : Apply a range of methods that identify user needs, design problems and design principles
CLO2 : Plan and execute an interaction design project using an iterative design approach
CLO3 : Explore possible design solutions by developing functional low-fidelity prototypes and test these using formal evaluation methods
CLO4 : Present and demonstrate new design concepts and solutions through individual and collaborative practice

Course Learning Outcomes	Assessment Item
CLO1 : Apply a range of methods that identify user needs, design problems and design principles	<ul style="list-style-type: none"><li>• Problem Definition</li><li>• Design Development and Evaluation</li></ul>
CLO2 : Plan and execute an interaction design project using an iterative design approach	<ul style="list-style-type: none"><li>• Problem Definition</li><li>• Design Development and Evaluation</li></ul>
CLO3 : Explore possible design solutions by developing functional low-fidelity prototypes and test these using formal evaluation methods	<ul style="list-style-type: none"><li>• Design Development and Evaluation</li></ul>
CLO4 : Present and demonstrate new design concepts and solutions through individual and collaborative practice	<ul style="list-style-type: none"><li>• Design Development and Evaluation</li></ul>

# Learning and Teaching Technologies

Moodle - Learning Management System | Microsoft Teams

## Assessments

### Assessment Structure

Assessment Item	Weight	Relevant Dates
Problem Definition Assessment Format: Individual	40%	
Design Development and Evaluation Assessment Format: Individual	60%	

## Assessment Details

### Problem Definition

#### Assessment Overview

The purpose of this task is to perform interaction design research methods to scope out the problem space of the given brief. A class brief will be presented at the beginning of term, applied to both Assessment 1 and Assessment 2. Moving beyond the focus on the screen in the introductory Interaction Design course, this assessment requires holistic design thinking incorporating digital and physical elements, and deals with issues of social complexity. In Assessment 1 you will apply user observations, cultural probing and other appropriate research and analytical methods, taught in class, to understand user needs and other aspects of the problem such as relevant constraints, and establish core functional requirements.

Feedback will be provided on a regular basis in studio through discussion with peers and tutors. Summative assessment and feedback will be provided digitally.

#### Course Learning Outcomes

- CLO1 : Apply a range of methods that identify user needs, design problems and design principles
- CLO2 : Plan and execute an interaction design project using an iterative design approach

### Design Development and Evaluation

#### Assessment Overview

In this Assessment you will develop your work from Assessment 1, using an iterative user-centred design approach, to develop a design concept and series of semi-functional prototypes and rich mockups that communicate and explore your design. You must show how your designs

are based on rigorous research of the problem space and established analytical and ideation methods. You will test these designs on users using formal methods covered in class. Your final presentation will include detailed wireframes and other design artefacts used to communicate your design in detail to a client.

Feedback will be provided on a regular basis in studio through discussion with peers and tutors. Summative assessment and feedback will be provided digitally.

#### Course Learning Outcomes

- CLO1 : Apply a range of methods that identify user needs, design problems and design principles
- CLO2 : Plan and execute an interaction design project using an iterative design approach
- CLO3 : Explore possible design solutions by developing functional low-fidelity prototypes and test these using formal evaluation methods
- CLO4 : Present and demonstrate new design concepts and solutions through individual and collaborative practice

## General Assessment Information

#### Grading Basis

Standard

## Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 12 February - 18 February	Lecture	The Interaction Cycle
Week 2 : 19 February - 25 February	Lecture	Rapid Prototyping 1
Week 3 : 26 February - 3 March	Lecture	Structured User Evaluations
Week 4 : 4 March - 10 March	Lecture	Restriction Aware Design
Week 5 : 11 March - 17 March	Lecture	Rapid Prototyping 2
	Assessment	Assessment One: DUE Friday of this Week, 11:59pm
Week 7 : 25 March - 31 March	Lecture	Human Factors
Week 8 : 1 April - 7 April	Lecture	UX Design
Week 9 : 8 April - 14 April	Lecture	Universal Accessible Design
Week 10 : 15 April - 21 April	Lecture	Future Trends
Week 11 : 22 April - 28 April	Assessment	Assessment Two: DUE Friday of this Week, 11:59pm

## Attendance Requirements

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

## General Schedule Information

Student are expect to attend the following sessions every week:

1x One (1) hour lecture

1x Three (3) hour studio session

The lecture will prepare students for the content in the studio sessions. All class activities will be geared towards helping students to be successful in the assessment tasks. Critically, the face to face studio sessions will provide the opportunity for peer-testing of designs and prototypes, which will be a key focus of this course. Regular and punctual attendance will greatly facilitate your success in this unit.

## Course Resources

### Prescribed Resources

For students opting to create digital prototypes, DDES2150 will be supporting the "EZPZ Interaction Toolkit" for Unity3D. Instructions on installation and basic usage is available on GitHub:

[https://github.com/AVataRR626/EZPZ\\_Interaction\\_Toolkit](https://github.com/AVataRR626/EZPZ_Interaction_Toolkit)

Class activities will utilise this toolkit. Unity3D is pre-installed in the studio computers, but it is also a good idea to have it installed in your own devices. Questions and feature requests should be directed to Matt Cabanag (matt.cabanag@unsw.edu.au)

### Recommended Resources

For those opting to create physical prototypes, we recommend platforms within the CircuitPython ecosystem:

<https://circuitpython.org/>

Support for these projects will primarily come from the [Hackspace](#) facility in Paddington campus.

### Additional Costs

Those who are interested in creating physical prototypes are expected to supply their own equipment. Arduino, Raspberry Pi, and related accessories are not freely supplied by the university. No additional costs are expected for those choosing to build digital prototypes if they stay within the university's licensing umbrella (e.g. Unity3D, Adobe Suite, Autodesk). Some specialist software or other digital assets that fall out of university licensing may incur extra cost, but the use of these items are not required, and purely at the discretion of students.

# Course Evaluation and Development

Previous feedback revealed a desire from students for greater support in building functional prototypes. Some studio time will now be dedicated to building skills in creating digital prototypes. Support for building physical prototypes is provided outside of class time via consultations with academic and technical staff. The structure of the course has also been modified to alleviate assessment time pressures by requiring less mandatory check point submissions.

## Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Matt Cabanag		Block G - Room 105 - Paddington Campus		email for appointment	No	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.

### [Use of AI for assessments | UNSW Current Students](#)

## 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)