UNSW Course Outline

IDES2321 Industrial Design Studio 2A: Production at Scale - 2024

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General Course Information

Course Code : IDES2321
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 Built Environment
Delivery Mode : In Person
Delivery Format : Standard
Delivery Location : Kensington
Campus : Sydney
Study Level : Undergraduate
Units of Credit : 6

Useful Links

Handbook Class Timetable

Course Details & Outcomes

Course Description

Industrial Design Studio 2A develops and deepens your knowledge about the construction, material choices, and manufacturing considerations when designing products for manufacture. Course content will cover production processes that vary in scale as well as the technical

requirements associated with these. In this studio course, you will advance your design communications skills to create persuasive and accurate design documentation that specifies form, details, assembly, fit and finish. The projects will require you to explore the opportunities and challenges associated with a prescribed range of materials and manufacturing processes in the design and development of fully resolved product proposals.

Relationship to Other Courses

Assessments in this course are used to demonstrate your design process and gained knowledge of materials and manufacturing processes. It is highly reccomended that you have completed IDES1316: Materials 1, and are either concurrently enrolled or have completed IDES2326: Materials 2.

Course Learning Outcomes

Course Learning Outcomes
CLO1 : Evaluate the materials and manufacturing processes used in a variety of design components and products.
CLO2 : Design and detail a product that is appropriate for specific materials and production techniques.
CLO3 : Communicate product form and function with given technical constraints.
CLO4 : Critically reflect on your design process in a design project of moderate complexity.

Course Learning Outcomes	Assessment Item
CLO1 : Evaluate the materials and manufacturing processes used in a variety of design components and products.	• Public Space • Plastics with Purpose
CLO2 : Design and detail a product that is appropriate for specific materials and production techniques.	• Public Space • Plastics with Purpose
CLO3 : Communicate product form and function with given technical constraints.	• Curated Design Portfolio • Public Space • Plastics with Purpose
CLO4 : Critically reflect on your design process in a design project of moderate complexity.	• Curated Design Portfolio • Public Space • Plastics with Purpose

Learning and Teaching Technologies

Moodle - Learning Management System

Learning and Teaching in this course

This studio course will be taught via in-person delivery. Consisting of a 1 hour lecture, and 3 hours of studio tutorials with an interval break. Studio tutorials will typically involve weekly review sessions of project milestones.

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates
Public Space Assessment Format: Group	40%	Start Date: 13/02/2024 09:00 AM Due Date: 12/03/2024 10:00 PM Post Date: 12/03/2024 10:00 PM
Curated Design Portfolio Assessment Format: Individual	10%	Start Date: 27/02/2024 09:00 AM Due Date: 26/04/2024 10:00 PM Post Date: 26/04/2024 10:00 PM
Plastics with Purpose Assessment Format: Individual	50%	Start Date: 12/03/2024 09:00 AM Due Date: 16/04/2024 10:00 PM Post Date: 16/04/2024 10:00 PM

Assessment Details

Public Space

Assessment Overview

Working in a group, you will develop a creative and technically sound response to a given design brief. Verbal feedback will be given throughout the project's development in studios. Grading will be done against assessment criteria. Individual work will be assessed.

Course Learning Outcomes

- CLO1 : Evaluate the materials and manufacturing processes used in a variety of design components and products.
- CLO2 : Design and detail a product that is appropriate for specific materials and production techniques.
- CLO3 : Communicate product form and function with given technical constraints.
- CLO4 : Critically reflect on your design process in a design project of moderate complexity.

Detailed Assessment Description

Refer to briefing document found on Moodle

Submission notes

Digital submission on Moodle, and in-class presentation of work

Assessment information

Refer to briefing document found on Moodle

Assignment submission Turnitin type

Not Applicable

Curated Design Portfolio

Assessment Overview

You will collate and curate your design process and outcomes into a well-designed document for presentation to an intended audience. Grading will be done against assessment criteria accompanied by written feedback.

Course Learning Outcomes

- CLO3 : Communicate product form and function with given technical constraints.
- CLO4 : Critically reflect on your design process in a design project of moderate complexity.

Detailed Assessment Description

Refer to briefing document found on Moodle

Submission notes

Digital submission on Moodle

Assessment information

Refer to briefing document found on Moodle

Assignment submission Turnitin type

Not Applicable

Plastics with Purpose

Assessment Overview

You will design and detail a product that is appropriate for specific plastic material processing, production and finishing techniques. Verbal feedback will be given throughout the project's development in studios. Grading will be done against assessment criteria.

Course Learning Outcomes

- CLO1 : Evaluate the materials and manufacturing processes used in a variety of design components and products.
- CLO2 : Design and detail a product that is appropriate for specific materials and production techniques.
- CLO3 : Communicate product form and function with given technical constraints.

- CLO4 : Critically reflect on your design process in a design project of moderate complexity.

Detailed Assessment Description

Refer to briefing document on Moodle

Submission notes

Digital submission on Moodle, and in-class presentation of work

Assessment information

Refer to briefing document on Moodle

Assignment submission Turnitin type

Not Applicable

General Assessment Information

Refer to Moodle for latest information

Grading Basis

Standard

Requirements to pass course

Aggregate mark of 50/100 required

Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 12 February - 18 February	Lecture	• Course Introduction • Assessment 1 briefing • The Design Process and Concept Generation
	Studio	• Assessment 1 consultation • Group activities
Week 2 : 19 February - 25 February	Lecture	• Guest Lecturer: Design for Place • Metal Fabrication
	Studio	• Assessment 1 consultation • Group activities
Week 3 : 26 February - 3 March	Lecture	• Creating a Portfolio
	Assessment	• In-class Presentation of Assessment 1 Group work
	Studio	• In-class Presentation of Assessment 1 Group work • Individual Assessment 1 consultation
Week 4 : 4 March - 10 March	Lecture	• Engineering drawing principals
	Studio	• Individual Assessment 1 consultation • Peer feedback of Assessment 1 progress
Week 5 : 11 March - 17 March	Lecture	• Assessment 2 briefing • Material circularity & right to repair movement
	Assessment	• Assessment 1 Individual in-class presentation
Week 6 : 18 March - 24 March	Other	No class - Flexibility Week
Week 7 : 25 March - 31 March	Lecture	• Plastic Injection Moulding - Aesthetics & CMF
	Studio	• Individual Assessment 2 consultation
Week 8 : 1 April - 7 April	Lecture	• Plastic Injection Moulding Principals • Design for dis-assembly
	Studio	• Individual Assessment 2 consultation
	Studio	• Individual Assessment 2 consultation • Peer feedback of Assessment 1 progress
Week 9 : 8 April - 14 April	Lecture	• AI tools for creative professionals
	Studio	• Individual Assessment 2 consultation • Peer feedback of Assessment 1 progress
Week 10 : 15 April - 21 April	Assessment	• Assessment 2 Individual in-class presentation

Attendance Requirements

You are expected to be regular and punctual in attendance at all classes for the School of Built Environment courses in which you are enrolled. If and where individual courses have specific attendance requirements, these will be stated in the course outline.

If you do not attend, engage, or participate in scheduled class activities, including lectures, tutorials, studios, labs, etc, you run the risk of failing a course.

If illness or unexpected and beyond your control circumstances prevent you from completing a task on time, or substantially disturb your assessment performance, you should apply for Special Consideration, as soon as practicable, accompanied by appropriate documentation.

No special consideration will be provided if you miss out on essential course information and

materials, or if you miss assessment tasks and deadlines due to unexplained absences or an unapproved lack of attendance.

You may be advised by the Course Convenor to withdraw from the course if significant learning activities are missed.

General Schedule Information

Classes will consist of a 1 hour lecture, then followed by a short break, then 3 hours of studio time for collaboration with students and consultation with tutors

Course Resources

Prescribed Resources

Refer to Leganto

Recommended Resources

Refer to Leganto

Additional Costs

Associated costs for prototyping materials (e.g. 3d printing in DFL), and equipment (craft knife, camera, calipers, and hand tools)

Course Evaluation and Development

Student feedback will be gathered through the MyExperience end of term survey. Your comments are analysed and improvements to the course are made based on these.

Response to previous student feedback

This course has been refreshed from previous iterations to include less assessment events over the course whilst maintaining the hands-on learning that is a highlight of this course. The balance of theory and practical learning has been maintained and the connection between theory and practice has been strengthened in response to student feedback. Opportunities for students to share their work have been increased in the course schedule.

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Mitchell Brown				Contact to schedule an appointment	Yes	Yes
Tutor	Francis Mcardle				During class time only	No	No

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 Plagarism

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

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 Contact Information

beadmin@unsw.edu.au