

ENGR 1044 DRAWING SKILLS FOR DESIGN THINKING

Credit Points 10

Legacy Code 301285

Coordinator Shuang Wu ([https://directory.westernsydney.edu.au/search/name/Shuang Wu/](https://directory.westernsydney.edu.au/search/name/Shuang%20Wu/))

Description Drawing skills can unlock and translate creative thoughts as actions, iterations, and guide collaborative dialogue in meeting common goals. In combination with Design Thinking essentials which include empathy, ideation, and experimentation, practiced drawing skills can accelerate decision-making for individuals or groups. This subject is focused on developing hand drawing skills as a tool for generating creative ideas and design solutions. Students will attain an understanding of spatial relationships between humans and objects, and natural and built environments. The emphasis is on using drawing as a method for conducting exploratory investigations, recording creative thinking processes through ideation and inspiring innovation. Students will gain confidence in communicating their creative ideas to a wide audience.

School Eng, Design & Built Env

Discipline Other Engineering And Related Technologies

Student Contribution Band HECS Band 2 10cp

Check your fees via the Fees (https://www.westernsydney.edu.au/currentstudents/current_students/fees/) page.

Level Undergraduate Level 1 subject

Learning Outcomes

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

1. Identify a variety of representational techniques to communicate three dimensional forms.
2. Identify relationships between humans and the built environment by undertaking observational drawing activities.
3. Apply visual-thinking techniques as a technique for creative problem solving.
4. Create a portfolio of works that apply drawing principles and techniques to generate 2D compositions.
5. Reflect on your drawing technique and development through the use of a sketch book diary.

Subject Content

1. Drawing as a tool for creative thinking
2. Observational drawing
3. Drawing tools and their use
4. Types of drawings and drawing systems
5. Ideation techniques
6. Explanatory drawings
7. Perspective technique and pictorial representation
8. Perception, viewpoints, depth, light and shadow
9. Design principles in drawing: line, shape, tone texture
10. Diagrammatic drawings
11. The human form in context of designed spaces and objects
12. Composition for communication
13. Rendering processes

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.

Type	Length	Percent	Threshold	Individual/ Group Task	Mandatory
Applied Project	A4 Sketchbook of weekly tutorial exercises	40	N	Individual	N
Applied Project	15 x A3 Pages of perspective drawing exercises	30	N	Individual	N
Portfolio	3 x A3 Communication drawings	30	N	Individual	N

Teaching Periods

Spring (2025)

Parramatta City - Macquarie St

Hybrid

Subject Contact Shuang Wu ([https://directory.westernsydney.edu.au/search/name/Shuang Wu/](https://directory.westernsydney.edu.au/search/name/Shuang%20Wu/))

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=ENGR1044_25-SPR_PC_3#subjects)