ENGR 1043 CO-DESIGNING CHANGE WITH LOCAL COMMUNITIES

Credit Points 10

Legacy Code 301282

Coordinator James Berry (https://directory.westernsydney.edu.au/search/name/James Berry/)

Description Collaboration is the foundation for some of the most successful world achievements ranging from medical breakthroughs, to space travel, to smart phones, to drones. Effective collaboration in diverse teams promotes a dynamic environment for creativity and innovation with good prospects for developing novel solutions. In a real world collaborative, co-design partnership with an external university partner, students will create a design proposal and prototype, based on a project brief. Through this collaborative process, students will develop skills in research, conceptualisation, communication and reflective practice whilst prototyping and testing their ideas before presenting them to their client.

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

Equivalent Subjects ENGR 1002 Applied Erognomics ENGR 1005 Design Studio 1 Patterns and Products

Learning Outcomes

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

1. Identify stakeholders and describe human-centred needs based on core requirements.
2. Develop and communicate conceptual design proposals based on a closed design brief.
3. Select a final design based on developed human-centred core attributes.
4. Build and test a design in the form of a simple operating model.
5. Describe and provide a written reflection on learning.

Subject Content

1. Understanding human factors in design through observation and engagement
2. Participating in a real-life collaborative professional challenge
3. User-centred design inquiry
4. Reframing a project brief that observes the integration of people, context, and rewarding experiences of products or services in use
5. Practical introduction to working in teams
6. Integrated design processes and iterative physical model making and prototyping

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
Professional Task	working interactive model	30	N	Individual	N
Applied Project	1200 words and 7 minutes presentatio	30	N	Group	N
Applied Project	2 X A3 presentation posters, one full scale physical model, 3 minutes presentation	40	N	Individual	N

Teaching Periods

Autumn (2025)

Parramatta City - Macquarie St

On-site

Subject Contact James Berry (https://directory.westernsydney.edu.au/search/name/James Berry/)

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=ENGR1043_25-AUT_PC_1#subjects)