



CVEN4106 CONSTRUCTION PRACTICUM

COURSE DETAILS

Units of Credit	6	
Contact hours	5 hours per week	
Lecture	Tuesday, 18:00 – 21:00	online
Seminar	Wednesday, 18:00 – 20:00	online
Course Coordinator and Lecturer	Dr Shane Geha mhoang@eg.com.au Off campus office	

INFORMATION ABOUT THE COURSE

Pre-requisites: CVEN2101 and CVEN3101

HANDBOOK DESCRIPTION

This course involves students working on a hands-on infrastructure project. Projects will involve infrastructure such as buildings, bridges, water supply and drainage, and historical structures. Within a nominated project, students are expected to develop, design, estimate, plan, construct, and manage the processes. The emphasis in the course is on the students learning by doing and having a hands-on approach. Students take theory learned in other courses and apply it in practice. Students are expected to think for themselves, deal with situations that they have not come across before, and think in a practical and professional way. Each time the course is offered, it will be based on a different project so that students will need to solve new problems and address novel issues.

<https://www.handbook.unsw.edu.au/undergraduate/courses/2021/CVEN4106/>

OBJECTIVES

The objectives of the course are:

- x Understanding the development Cycle of Projects
- x Carry out Feasibility Studies for Projects
- x Understanding the various approvals required for Projects in NSW
- x Basic understanding of Law, Planning and Risk as they relate to Engineering Projects
- x Understanding the Sensitivity Analyses for Projects

EXPECTED LEARNING OUTCOMES

This course is designed to address the learning outcomes below and the corresponding Engineers Australia Stage 1 Competency Standards for Professional Engineers as shown. The full list of Stage 1 Competency Standards may be found in Appendix A.

After successfully completing this course, you should be able to:

Learning Outcome	EA Stage 1 Competencies
1. Develop an understanding of the basic concepts.	PE1.1, PE1.2, PE1.6
2. Communicate effectively both written and verbally.	PE3.1, PE3.2, PE3.5

3. By the conclusion of the course, the students will be able to understand the life cycle of a project from concept to completion.

ASSESSMENT

1. Individual Assignment 1

This assignment will require students to compose a written report in the Harvard style, relating to the lecture and workshop content. The basis of this work is for students to illustrate their understanding of the knowledge learnt throughout the course, and demonstrate students' ability to coherently construct a report.

2. Video presentation

This assignment requires each students in their allocated groups to submit a video of them presenting in front of a 'panel'. The way you present accurate technical information is significant part of this assignment. Each group must provide a one-page outline of their presentation. The assignment will imbue students with the real-life experience of presenting to a Board, working in teams, and demonstrate students' public speaking skills.

3. Final Examination

The Final Examination will be externally conducted and scheduled by the UNSW Examinations Branch. Students will be informed via Moodle for the exact start time of this 2-hour examination. This

RELEVANT RESOURCES

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Appendix A: Engineers Australia (EA) Competencies
Stage 1 Competencies for Professional Engineers