UNSW Course Outline

CVEN4051 Thesis B - 2024

Published on the 21 May 2024

General Course Information

Course Code : CVEN4051
Year : 2024
Term : Term 2
Teaching Period : T2
Is a multi-term course? : No
Faculty : Faculty of Engineering
Academic Unit : School of Civil and Environmental Engineering
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

This course is the second of two parts and is undertaken after the completion of CVEN4050 Thesis A. The Thesis involves formulating the designs for and solution to open-ended civil and/or environmental engineering problems. The problems will be drawn from industry and will be multi-disciplinary involving application of material learnt throughout the undergraduate program

and will require creative thought. The course will include the preparation of relevant professional documents. Part B involves the satisfactory preparation and submission of an individual thesis addressing the project plan defined in Thesis A.

Course Aims

This course enhances the student's skills for undertaking scholarly enquiry by attempting to achieve a specific topic objective within a defined period of time. A significant component of the course relates to the review of literature, which promotes independent and reflective learning as well as increases students' capacity to develop information literacy. The thesis is expected to reinforce the student's ability and confidence in the written communication of technical information.

Course Learning Outcomes

Course Learning Outcomes
CLO1 : Execute a research project within an assigned theme
CLO2 : Conduct a literature review to determine the range of acceptable solutions and/or limitations of those acceptable solutions for a research project
CLO3 : Demonstrate critical thinking and research skills and critique industry practices in formulating responses to problems relating to the role of civil and environmental engineers
CLO4 : Apply engineering principles, such as risk management, decision making and design in developing solutions to real-world problems that are ethically sound
CLO5 : Demonstrate professional level written communication skills and presentation skills

Course Learning Outcomes	Assessment Item
CLO1 : Execute a research project within an assigned theme	• Thesis Document • Thesis Preparation
CLO2 : Conduct a literature review to determine the range of acceptable solutions and/or limitations of those acceptable solutions for a research project	• Thesis Document • Thesis Preparation
CLO3 : Demonstrate critical thinking and research skills and critique industry practices in formulating responses to problems relating to the role of civil and environmental engineers	• Thesis Document • Thesis Preparation
CLO4 : Apply engineering principles, such as risk management, decision making and design in developing solutions to real-world problems that are ethically sound	• Thesis Document • Thesis Preparation
CLO5 : Demonstrate professional level written communication skills and presentation skills	• Thesis Document • Thesis Preparation

Learning and Teaching Technologies

Moodle - Learning Management System | Microsoft Teams | Echo 360 | Review - Assessment/ Feedback Tool

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates
Thesis Document Assessment Format: Individual	50%	Due Date: Week 7: 08 July - 14 July
Thesis Preparation Assessment Format: Individual	50%	Due Date: Week 10: 29 July - 04 August

Assessment Details

Thesis Document

Course Learning Outcomes

- CLO1 : Execute a research project within an assigned theme
- CLO2 : Conduct a literature review to determine the range of acceptable solutions and/or limitations of those acceptable solutions for a research project
- CLO3 : Demonstrate critical thinking and research skills and critique industry practices in formulating responses to problems relating to the role of civil and environmental engineers
- CLO4 : Apply engineering principles, such as risk management, decision making and design in developing solutions to real-world problems that are ethically sound
- CLO5 : Demonstrate professional level written communication skills and presentation skills

Detailed Assessment Description

Students will conduct a literature review and an in-class presentation about their nominated topic on the theme project.

Assessment Length

To be discussed in the Thesis Report Preparation Instruction

Submission notes

To be submitted by the end of Week 5.

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students do not see Turnitin similarity reports.

Thesis Preparation

Course Learning Outcomes

- CLO1 : Execute a research project within an assigned theme
- CLO2 : Conduct a literature review to determine the range of acceptable solutions and/or limitations of those acceptable solutions for a research project
- CLO3 : Demonstrate critical thinking and research skills and critique industry practices in formulating responses to problems relating to the role of civil and environmental engineers
- CLO4 : Apply engineering principles, such as risk management, decision making and design in developing solutions to real-world problems that are ethically sound
- CLO5 : Demonstrate professional level written communication skills and presentation skills

Detailed Assessment Description

Students prepare a thesis file including an abstract on their selected topic about the theme project.

Assessment Length

To be discussed in the Assignments Preparation Instruction

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

General Assessment Information

Grading Basis

Standard

Course Schedule

Teaching Week/Module	Activity Type	Content
Week 0 : 20 May - 26 May	Other	No Lecture
Week 1 : 27 May - 2 June	Lecture	Course Introduction
Week 2 : 3 June - 9 June	Lecture	Thesis Topic Nomination
Week 3 : 10 June - 16 June	Lecture	Public Holiday (No Lecture) - Online Consultation
Week 4 : 17 June - 23 June	Lecture	Literature Review Preparation
Week 5 : 24 June - 30 June	Lecture	Referencing Systems and Softwar
Week 6 : 1 July - 7 July	Other	Mid-term Break (UNSW Flexibility Week). No lecture/workshop
Week 7 : 8 July - 14 July	Lecture	Abstract/Final Thesis Preparation
Week 8 : 15 July - 21 July	Lecture	Final Thesis Preparation
Week 9 : 22 July - 28 July	Lecture	Resume and Cover Letter Preparation
Week 10 : 29 July - 4 August	Lecture	Getting Prepared for Interview

Attendance Requirements

For undergraduate courses with Workshops and/or Labs, attendance for those classes is a necessary part of the course. You must attend at least 80% of the workshop/lab in which you are enrolled for the duration of the sessions.

General Schedule Information

The Lecture is on Monday 11am-1pm.

The workshop sessions are in different time slots of on Mon 9-11am and Mon 1-3pm. Students need to attend only one workshop session per week.

Course Resources

Prescribed Resources

No specific resource is prescribed.

Recommended Resources

Having access to high speed internet, a reliable PC or laptop, and a headset.

Course Evaluation and Development

The feedback from students will be gathered throughout the term and the end of the term survey. The comments will be reviewed by the course convener and will be taken into consideration to improve the next course offering.

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Dr. Khalegh Barati		CE209 School of Civil and Environmental Engineering	Call via Microsoft Teams only.	anytime	No	Yes

Other Useful Information

Academic Information

I. Special consideration and supplementary assessment

If you have experienced an illness or misadventure beyond your control that will interfere with your assessment performance, you are eligible to apply for Special Consideration prior to, or within 3 working days of, submitting an assessment or sitting an exam.

Please note that UNSW has a Fit to Sit rule, which means that if you sit an exam, you are declaring yourself fit enough to do so and cannot later apply for Special Consideration.

For details of applying for Special Consideration and conditions for the award of supplementary assessment, please see the information on UNSW's Special Consideration page.

II. Administrative matters and links

All students are expected to read and be familiar with UNSW guidelines and polices. In particular, students should be familiar with the following:

- Attendance
- UNSW Email Address
- Special Consideration
- Exams
- Approved Calculators
- Academic Honesty and Plagiarism
- Equitable Learning Services

III. Equity and diversity

Those students who have a disability that requires some adjustment in their teaching or learning environment are encouraged to discuss their study needs with the course convener prior to, or at the commencement of, their course, or with the Equity Officer (Disability) in the Equitable Learning Services. Issues to be discussed may include access to materials, signers or note-takers, the provision of services and additional exam and assessment arrangements. Early notification is essential to enable any necessary adjustments to be made.

IV. Professional Outcomes and Program Design

Students are able to review the relevant professional outcomes and program designs for their streams by going to the following link: https://www.unsw.edu.au/engineering/student-life/student-resources/program-design.

Note: This course outline sets out the description of classes at the date the Course Outline is published. The nature of classes may change during the Term after the Course Outline is published.

Moodle or your primary learning management system (LMS) should be consulted for the up-to-date class descriptions. If there is any inconsistency in the description of activities between the University timetable and the Course Outline/Moodle/LMS, the description in the Course Outline/ Moodle/LMS applies.

Academic Honesty and Plagarism

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW students have a responsibility to adhere to this principle of academic integrity. Plagiarism undermines academic integrity and is not tolerated at UNSW. *Plagiarism at UNSW is defined as using the words or ideas of others and passing them off as your own.*

Plagiarism is a type of intellectual theft. It can take many forms, from deliberate cheating to accidentally copying from a source without acknowledgement. UNSW has produced a website with a wealth of resources to support students to understand and avoid plagiarism, visit: student.unsw.edu.au/plagiarism. The Learning Centre assists students with understanding academic integrity and how not to plagiarise. They also hold workshops and can help students one-on-one.

You are also reminded that careful time management is an important part of study and one of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting and the proper referencing of sources in preparing all assessment tasks.

Repeated plagiarism (even in first year), plagiarism after first year, or serious instances, may also be investigated under the Student Misconduct Procedures. The penalties under the procedures can include a reduction in marks, failing a course or for the most serious matters (like plagiarism in an honours thesis or contract cheating) even suspension from the university. The Student Misconduct Procedures are available here:

www.gs.unsw.edu.au/policy/documents/studentmisconductprocedures.pdf

Submission of Assessment Tasks

Work submitted late without an approved extension by the course coordinator or delegated authority is subject to a late penalty of five percent (5%) of the maximum mark possible for that assessment item, per calendar day.

The late penalty is applied per calendar day (including weekends and public holidays) that the assessment is overdue. There is no pro-rata of the late penalty for submissions made part way through a day. This is for all assessments where a penalty applies.

Work submitted after five days (120 hours) will not be accepted and a mark of zero will be awarded for that assessment item.

For some assessment items, a late penalty may not be appropriate. These will be clearly indicated in the course outline, and such assessments will receive a mark of zero if not completed by the specified date. Examples include:

- Weekly online tests or laboratory work worth a small proportion of the subject mark;
- Exams, peer feedback and team evaluation surveys;
- Online quizzes where answers are released to students on completion;
- Professional assessment tasks, where the intention is to create an authentic assessment that has an absolute submission date; and,
- Pass/Fail assessment tasks.

Faculty-specific Information

Engineering Student Support Services – The Nucleus - enrolment, progression checks, clash requests, course issues or program-related queries

Engineering Industrial Training – Industrial training questions

UNSW Study Abroad – study abroad student enquiries (for inbound students)

UNSW Exchange – student exchange enquiries (for inbound students)

UNSW Future Students – potential student enquiries e.g. admissions, fees, programs, credit transfer

Phone

(+61 2) 9385 8500 – Nucleus Student Hub

(+61 2) 9385 7661 – Engineering Industrial Training

(+61 2) 9385 3179 – UNSW Study Abroad and UNSW Exchange (for inbound students)

School-specific Information

Final Examinations

Final Exams in T2 2024 will be held on campus between the 9th - 22nd August, and Supplementary Exams between the 2nd - 6th September 2024. You are required to be available on these dates. Please do not to make any personal or travel arrangements during this period.

School Contact Information

For assistance with enrolment, class registration, progression checks and other administrative matters, please see the Nucleus: Student Hub. They are located inside the Library – first right as you enter the main library entrance. You can also contact them via http://unsw.to/webforms or reserve a place in the face-to-face queue using the UniVerse app.

For course administration matters, please contact the Course Coordinator.

Questions about the this course should normally be asked during the scheduled class so that everyone can benefit from the answer and discussion.