

**The University of Western Ontario  
Department of Civil and Environmental Engineering**

**CEE 4440 – Civil Engineering Thesis Course Outline 2023-2024**

This course is primarily directed at students considering future graduate studies. The objective of the course is to provide the student with an opportunity to select and investigate an engineering problem in some depth under the individual supervision of a faculty member. The student will carry out analytical and/or experimental work and prepare a progress report and an engineering thesis. Each student must deliver a public lecture.

**Anti-requisites:**

BME4400, CBE 415, ECE 4415/4416, MME 4410, SE 4450.

**Note:** It is students' **responsibility** to ensure that all Prerequisite conditions are met or that special permission to waive these requirements has been granted by the Faculty. Unless the student has either the requisites for this course or written special permission from the Associate Dean's Office to enrol in it, he/she will be removed from this course and it will be deleted from the student's record. It is also the student's **responsibility** to ensure that he/she has not taken a course listed as an Anti-requisite. The student may not be given credit if he/she violates the anti-requisite condition. The decisions regarding either prerequisite or anti-requisite may not be appealed. The student will receive no adjustment to tuition fees in the event that he/she is dropped from a course for failing to meet prerequisite and anti-requisite conditions.

**Faculty Advisor:**

It is the student's responsibility to ensure that he/she has a Faculty Advisor(s). At least one Faculty Advisor must be a faculty member in the Dept. of Civil and Environmental Engineering.

**Contact Hours:**

By arrangement with the Faculty Advisor. All students registered in this course are required to attend Civil Seminars, which are held on Tuesdays, 1:30 – 2:30 PM during Fall and Winter semesters, as part of learning experience for carrying out research in the broad field of civil and environmental engineering.

**Coordinator:**

Dr. Sabina Rakhimbekova, SEB3041, [srakhimb@uwo.ca](mailto:srakhimb@uwo.ca)

**Text:** N/A.

**Laboratory:** 6 hours of personal work per week

**Units:** SI

## **General Learning Objectives**

Knowledge Base	I	Individual Work	T	Ethics and Equity	
Problem Analysis	T	Team Work		Economics and Project Management	
Investigation	T	Communication	I	Life-Long Learning	
Design	T	Professionalism	I		
Engineering Tools	I	Impact on Society	I		

<b><u>Evaluation:</u></b>	Proposal	5% (by faculty advisor)
	Progress report	20% (by faculty advisor)
	Abstract and Oral presentation <sup>1</sup>	25% (by judges of U/G thesis competition)
	Final report	50% (by faculty advisor and another FE professor)
	<b>Total</b>	<b>100%</b>

In addition to these, students are required to attend at least 70% of the graduate seminars (either online or in-person). Attendance at these seminars will be tracked by the department via Zoom or another digital platform (e.g. iClicker).

Oral presentations will be conducted in-person or through a live presentation via Zoom. The winner who receives the highest grade in the oral presentation will receive a travel award up to \$1,000 from the Department of Civil and Environmental Engineering to attend a technical conference.

## **Use of English**

In accordance with Senate and Faculty Policy, students may be penalized up to 10% of the marks on all assignments, tests and examinations for the improper use of English. Additionally, poorly written work with the exception of final examinations may be returned without grading. If resubmission of the work is permitted, it may be graded with marks deducted for poor English and/or late submission.

## **Cheating**

University policy states that cheating, including plagiarism, is a scholastic offence. The commission of a scholastic offence is attended by academic penalties, which might include expulsion from the program. If you are caught cheating, there will be no second warning.

## **Plagiarism**

University policy states that plagiarism, defined as the “act or an instance of copying or stealing another’s words or ideas and attributing them as one’s own.” (excerpted from Black’s Law Dictionary, West Group, 1999, 7th ed., p. 1170) is a scholastic offence. In submitting any written work as part of the coursework requirements for this course students must ensure that this work is written in their own words. Whenever students take an idea or a passage of text from another author, they must acknowledge their debt both by using quotation marks where appropriate and by proper referencing such as footnotes or citations. All required papers may be subject to submission for textual similarity review to the commercial plagiarism-detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers

subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between The University of Western Ontario and Turnitin.com (<http://www.turnitin.com>).

A student who is found guilty of plagiarism in respect of any written work submitted as part of the coursework requirements for this course will be given a grade of zero for the submitted work. Repeated acts of plagiarism, either in this course or any other course subsequent to a first offence, will result in the student being given a failing grade for the course in which the subsequent offence occurs, and may also incur further penalties such as requiring the student to withdraw from the program in which they are enrolled in.

### **Consultation**

Students are encouraged to discuss problems with their Faculty Advisor(s) and/or Course Coordinator. Faculty Advisor(s) will have weekly office hours scheduled for CEE4440. Email the Course Coordinator to set up an appointment.

### **Accessibility:**

Please contact the course instructor if you require material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 661-2111 x 82147 for any specific question regarding an accommodation.

### **Notice:**

Students are responsible for regularly checking their e-mail and notices posted outside the Civil Departmental Office.

### **Course Breakdown:**

Engineering Science = 60%

Complementary Studies = 40%