

The University of Western Ontario
Department of Mechanical & Materials Engineering

MME 4410 — Mechanical & Materials Engineering Thesis
COURSE OUTLINE 2026-27

CALENDAR DESCRIPTION:	The objective of the course is to provide the student with an opportunity to select and investigate an engineering problem in some depth independently under the 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. This course is primarily directed at students considering future graduate studies.
COORDINATOR:	Prof. A.G. Straatman Room: SEB 3002, Telephone: 519-661-2111, Ext. 88249 e-mail: agstraat@uwo.ca
PREREQUISITES:	Completion of the third year of the Mechanical & Materials Engineering program with a minimum A- average. Unless you have either the requisites for this course or written special permission from your Chair or Dean to enroll in it, you will be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.
ANTIREQUISITES	CBE 4415, ECE 4416, SE 4450; MME 4401y
ACCREDITATION UNITS:	Engineering Science = 75%, Complementary Studies = 25%
CONTACT HOURS:	By arrangement with the thesis Faculty Advisor. Laboratory: 3 hours of personal work per week. Full course (1.0 credit).
LEARNING OUTCOMES:	Upon successful completion of this course, students will be able to: 1. Independently gather background knowledge necessary to undertake a research project (LL2) 2. Carefully manage time and resources to ensure completion of all project milestones (EPM2) 3. Write a comprehensive thesis document describing research activities (CS3) 4. Orally present and defend research activities (CS2) The terms in parentheses beside each learning outcome refer to Graduate Attributes (GAs) established by the Canadian Engineering Accreditation Board (CEAB) of Engineers Canada. These attributes are used in the accreditation process to ensure that accredited engineering programs are providing the academic requirements for licensure as a professional engineer in Canada. Information on Graduate Attributes and Indicators can be found at GA Indicators. The table below indicates which specific attributes are measured in this course and the level at which it is measured, wherein I = Introduced, D = Developed and A = Advanced/Applied.

CEAB Graduate Attribute Learning Levels for this course:

Knowledge Base		Engineering Tools		Impact on Society	
Problem Analysis		Individual & Teamwork		Ethics and Equity	
Investigation		Communication	A	Economics & Project Mgmt.	A
Design		Professionalism		Life-Long Learning	A

TEXT: N/A

UNITS: SI

EVALUATION:

Proposal (Due Oct 19/26)	5% (by faculty advisor)
Progress report (Due Jan 29/27)	20% (by faculty advisor)
Abstract and Oral presentation (Due Mar 22/27)	25% (by judges of U/G thesis competition)
Final report (Due Apr 12/27)	50% (by faculty advisor and coordinator)

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 MME4410.

General Faculty / University Policies

The Faculty of Engineering and Western University have overarching policies that prescribe how undergraduate courses should run. The course-specific policies described above should be considered *in addition to* those overarching policies, or as course-specific interpretations of them. In the event of contradictions or confusion between course-specific policies above and general Faculty / University policies, please contact your course instructor for clarification.

Western Engineering's undergraduate policies can be found by navigating to:

<https://www.eng.uwo.ca/undergraduate/academic-support-and-accommodations/policies.html>

and then clicking the “*Engineering Undergraduate Policies framework*” link.