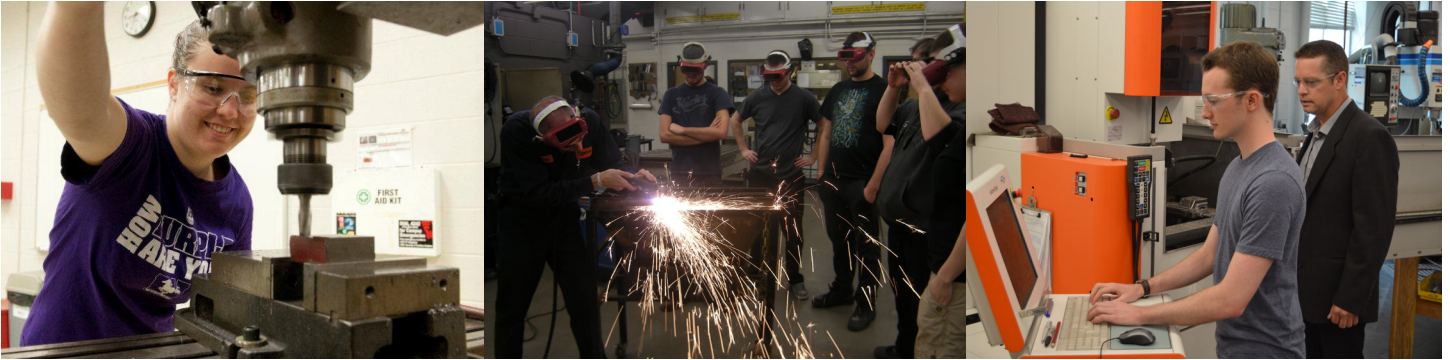


Practical Elements of Mechanical Engineering

Externship



What is Practical Elements of Mechanical Engineering?

Western Engineering has collaborated with Fanshawe College to provide you with valuable hands-on experience through an externship. Western Engineering students can complete a four-month externship to earn an Ontario College Local Certificate, and, after completing a second four-month term, an Ontario College Graduate Certificate. Practical courses include machining, welding, metrology, plus other complementary topics. The PEME Externship complements your technical knowledge with hands-on experience.

Who can take Practical Elements of Mechanical Engineering?

Enrollment in the PEME externship is open to all Engineering students after completion of their first year of study.

How will Practical Elements of Mechanical Engineering help you as an engineer?

Upon graduation, you will have a Bachelor of Engineering Science (BESc) degree from Western and a Practical Elements of Mechanical Engineering certificate or diploma from Fanshawe College. The combination of these two credentials will set your résumé apart from the competition, showing employers you have the theoretical and practical skills they are seeking.

Program Structure

PEME is delivered in two levels, each of which require one term of study at Fanshawe College. Students can elect to take one or both levels of the PEME program, with the only caveat being that PEME Level 1 is a prerequisite for PEME Level 2.

Students who complete Level 1 receive an Ontario College Local Certificate from Fanshawe College and credit on their Western transcript for completion of ES 2274A/B – Engineering Externship 1.

Students who complete Level 1 and Level 2 receive an Ontario College Graduate Diploma from Fanshawe College and credit on their Western transcript for completion of ES 2274A/B and ES 2275A/B.

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The Curriculum

Level 1		Level 2	
CADD-1054	Eng. Drawing & BP Reading	WELD-1047	Production Welding
CADD-1055	CADD Fundamentals	MACH-1144	CNC Machining
MACH-1124	Machining 1	MECH-1090	Tool Design I
WELD-1040	Welding Technology 1	MECH-3034	Industrial Hydraulics Pneumatics & PLCs
METH-1002	Technology in Industry	MGMT-1007	Project Management
ENGR-1020	Engineering Design 1	MECH-3035	Practical Project
MECH-1072	SPC & Metrology		
MATS-1021	Ferrous Metallurgy		

Individualize Your Western Engineering Degree

Since Practical Elements of Mechanical Engineering is offered every year, you can combine the externship with a dual degree, internship, summer engineering co-op and more.

We offer dual degrees with the Ivey Business School and Western Law and more than 50 major modules in faculties such as Science, Music, Social Science or Arts & Humanities.

Our optional Internship and Summer Engineering Co-op Program provides you with opportunities to gain practical experience while earning a salary. The 12 to 16-month internship is available following your third year of study. Summer co-ops provide technical work experience during the summer months (May-August). You can complete a co-op every year or choose to complete just one during your time at Western.

We also offer an Accelerated Master's Program to third-year Western Engineering students. Applicants must have an average grade of 80 per cent or higher (based on their second and third-year courses). The Accelerated Master's program provides you with the opportunity to receive a research master's degree within one year of receiving your bachelor's degree.

Practical Elements of Mechanical Engineering

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