



Centre for Executive and  
Professional Education  
*at the University of Windsor*



University  
of Windsor  
Faculty of Engineering




# Master of Engineering - Mechanical Engineering

(Automotive Option)

Set yourself apart

Study at Canada's Automotive University





**RAM BALACHANDAR, PhD PEng**  
EXECUTIVE DIRECTOR, CEPE  
PROFESSOR, FACULTY OF ENGINEERING

## Set yourself apart with the Master of Engineering - Mechanical Engineering (*Automotive Option*)

**The objective of the Master of Engineering - Mechanical Engineering (Automotive Option) is to prepare graduates for leadership positions within the automotive industry.**

The University of Windsor is known as “Canada’s Automotive University” and you will experience firsthand the reasons why – through collaborations with industry and other partners. You will have access to exceptional research laboratories where you will receive hands-on experience and further develop your knowledge.

At the University of Windsor, we strive to create an environment of learning, opportunity, and personal and professional growth. Our students go on to pursue careers in government, industry and at various universities across North America and the world.

Our friendly and safe campus is ideal for learning about and becoming a part of the automotive industry. We are located on the Canada-United States border in the automotive and manufacturing heartland of North America. Our unique location means that we can offer our students opportunities for international study, research and work experience that no other university in Canada can match.



**MIN LI, CHINA,**  
MASTER OF ENGINEERING,  
MECHANICAL ENGINEERING  
(AUTOMOTIVE OPTION) CLASS OF 2009

### **Learn from the best**

The key to a great university education is the quality of its teaching and research done by its professors. At the University of Windsor, you will be interacting with world-class faculty conducting cutting-edge research in the automotive area. They will be your mentors as you prepare yourself for the careers of the future. You will combine what you learn in the classroom with practical application so that you are ready for the world of opportunities that will follow your university studies.

### **Program Details**

MEng Mechanical Engineering (Automotive Option) is a professional, course based Masters program. The goal of the program is to provide you with the opportunity to extend your understanding of automotive engineering principles, with an emphasis on operation, design, materials and manufacturing along with some aspects of business and management.

You will study and live in Canada for approximately one year and will complete eight courses. The courses are selected by academic administration and will vary from year to year.

Students who require additional English language training must complete a eight week English language training program and orientation to Canada prior to commencing their studies. Students who demonstrate excellent English language skills will be exempted from this program.

*“The professors allowed me to expand my automotive engineering knowledge and facilitated my professional growth. The low student to professor ratio, allowed the professors to know me by name, be accessible and be extremely motivating.”*





**DR. ANDRZEJ SOBIESIAK PhD PEng**  
DEPARTMENT HEAD, DEPARTMENT OF  
MECHANICAL AUTOMOTIVE & MATERIALS  
ENGINEERING, PROFESSOR,  
FACULTY OF ENGINEERING

### **Course Offerings**

The Master of Engineering - Mechanical Engineering (Automotive Option) consists of eight prescribed courses taught over three academic terms.

#### **Courses may include:**

- Advanced Internal Combustion Engines
- Hybrid Powertrains
- Fundamentals of Clean Engine Technology
- Advanced Manufacturing Methods
- Vehicle Dynamics
- Automotive Sensor Systems
- Vehicle Thermal Management
- Automotive Applications for Noise, Vibration & Harshness Evaluation
- After-treatment & Internal Combustion Engine Modeling
- Paint & Industrial Coatings
- Vehicle Concept Development

The courses will vary from year to year depending on current market trends in the automotive industry and availability. Please see our web site for the current offerings **[www.uwindsor.ca/InternationalPrograms](http://www.uwindsor.ca/InternationalPrograms)**.



### Admission requirements for the Master of Engineering - Mechanical Engineering (Automotive Option)


- Confirmation of successful completion of a Bachelor of Applied Science (or equivalent degree) in Engineering from an academic institution approved by the University of Windsor. Applicants with degrees in related fields may also be considered.
- Evidence of having obtained a B average (75%) or higher in undergraduate studies (when converted to University of Windsor standards).
- Demonstrated English proficiency by meeting or exceeding one of the following test:
  - IELTS score of at least 6.5 or equivalent
- A successful interview with a representative from the University of Windsor
- Two letters of reference

Enrolment is limited. Preference will be given to candidates who exceed the above minimum requirements and those who have relevant work experience. Please visit our web site for the application information [www.uwindsor.ca/InternationalPrograms](http://www.uwindsor.ca/InternationalPrograms).

MARIO MERCADO, MEXICO,  
MASTER OF ENGINEERING,  
MECHANICAL ENGINEERING  
(AUTOMOTIVE OPTION) CLASS OF 2009

*"It is my dream to work in the automotive industry. The passion I have for this industry made me come to the University of Windsor to broaden my understanding of automotive engineering."*





**MUHAMMAD UMAR NASEEM, PAKISTAN,**  
MASTER OF ENGINEERING,  
MECHANICAL ENGINEERING  
(AUTOMOTIVE OPTION) CLASS OF 2009

*“The internship provided me with an excellent career building opportunity. Not only did the research enhance my skills and knowledge, the exposure to industry professionals was extremely beneficial.”*

### **Internship Option**

In the summer following the completion of all coursework, you may have an opportunity to participate in an optional internship. This will allow you to apply your new knowledge and skills to real world situations within various organizations.

If opportunities are limited, the selection may become a competitive process. We cannot guarantee that an internship will be offered to each student.

### **Compliment your education**

Extracurricular activities are an important part of your education. From time to time, arrangements may be made for you to participate in seminars about industry leading topics.

### **Scholarship Opportunity**

CEPE grants a number of MEng Automotive Entrance Awards each year. The award can value up to \$1000 and is granted to students who have excelled in their academic programs from which their admission was based.

### **Tuition, Fees & Application Information**

Tuition fees cover all instructions costs, but does not include books, living expenses and health insurance. To learn more please visit our web site **[www.uwindsor.ca/InternationalPrograms](http://www.uwindsor.ca/InternationalPrograms)** for the current tuition payment information and application information or e-mail **[cepe@uwindsor.ca](mailto:cepe@uwindsor.ca)**.



**THE UNIVERSITY OF WINDSOR'S**  
CENTRE FOR ENGINEERING INNOVATION,  
ARCHITECTURAL RENDERING,  
OPENING 2011

### **Vibrant and dynamic community**

Windsor is one of the most ethnically diverse cities in Canada and its geographic location speaks to its distinctive character. The communities near the University of Windsor are famous for their international flair and flavour – you can find dozens of international grocery stores and restaurants here. The convenient public transit system will take you where you want to go and many amenities are within a short walking distance from campus.

### **Picture Yourself Here**

The University of Windsor campus is large enough to offer plenty of variety, and it's small enough for you to be known by name. You will find unlimited opportunities to get involved in academic, recreational and social activities ... whether to broaden your mind or your circle of friends.

The International Students' Society and numerous other student clubs provide friendship and support, as well as academic, social and recreational activities.

The St. Denis Centre boast both an indoor and an outdoor track where you can jog, or swim laps in a large indoor championship sized pool, work out in the state-of-the-art weight and exercise rooms or catch a foot ball match at the stadium.

### **Centre for Executive and Professional Education**

This program is offered by the Centre for Executive and Professional Education in cooperation with the Faculty of Engineering at the University of Windsor. The mandate of the Centre for Executive and Professional Education is to reach beyond the campus of the University of Windsor to organizations and people, locally and internationally, and be part of the critical process of developing people.



University  
of Windsor

### FAST FACTS

- Currently the Engineering Faculty at the University of Windsor has approximately 1100 undergraduate students and 400 graduate students, while employing over 100 professors and support staff.
- University of Windsor is the host university for the AUTO21 Network Centre of Excellence (NCE), the largest NCE in Canada.
- The Faculty of Engineering benefits from close industrial partnerships and is part of the world class, multimillion dollar facility — the Automotive Research and Development Centre (ARDC).
- Mechanical Automotive & Materials Engineering hosts the Centre for Automotive Research and Education (CARE), which is an ongoing partnership between the University and all levels of government and industry to prepare students for automotive industry careers.
- Eleven percent of the University's student body is from nearly 100 countries.

[www.uwindsor.ca/InternationalPrograms](http://www.uwindsor.ca/InternationalPrograms)

## University of Windsor

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MECHANICAL ENGINEERING  
(Automotive Option)

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