Master of Engineering (M. Eng.)

in

Biomaterials and Biochemical Engineering

(Starting Sept. 2014)

The Department of Chemical and Biochemical Engineering at the University of Western Ontario offers a professional Master of Engineering (M.Eng.) degree program in Biomaterials and Biochemical Engineering. The program provides an opportunity for qualified applicants to improve their theoretical and practical skills. The flexibility of the programs enables students to be enrolled in courses directly related to their careers in different areas of Biomaterials and Biochemical Engineering.

Graduate level training is offered with main emphasis on the application of Biomaterials and Biochemical Engineering in different fields. In order to satisfy requirements, students must take three fundamental (core) courses to upgrade their knowledge in common areas of Biomaterials and Biochemical Engineering and a minimum of two professional courses offered in summer.

Students must also take elective courses based on their area of interest. A minimum 10 half courses is required for graduation. A research project may replace two elective courses. The project, which can be industry based (preferably) may require critical literature review, laboratory work, simulation and modeling depending on the project type. Students are also allowed to start their PhD upon successful completion of M.Eng. program (subject to availability of position and supervisor agreement).

Student may be enrolled full time or part time.

The recommended course load for a full time M.Eng. student, starting in September, is four half courses per semester plus two professional engineering courses in summer. Students may select other graduate level elective courses offered by other departments upon consultation with the program advisor.

Selected courses may be offered Monday - Friday between 4:30 – 7:30 pm. Some courses may be offered on-line (lectures and tutorials). Condensed lectures will be offered to provide maximum flexibility for students especially in the summer term. Limited number of courses may be offered in summer term depending on the enrolment.

Students interested in admission to the program must have a bachelor’s degree in chemical/Biochemical engineering or other related disciplines or an equivalent degree from an accredited university in Canada or other countries.

Core courses:
Select at least one from each category:
1.  a. Selected Topics in Biochemical Engineering (CBE 9291)
    b. Biochemical Engineering III (CBE 9212)
2.  a. Transport Processes (CBE 9161)
    b. Advanced Chemical Engineering Thermodynamics (CBE 9151)
3.  a. Biomaterial Engineering (BME 525)
    b. Tissue Engineering (BME 526)

Elective Courses: Please visit the department website for the elective courses list (subject to change).

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