

School of Biomedical Engineering **Engineering Technology Building** 1280 Main Street West Hamilton, Ontario L8S 4K1

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BME 701 – Fall 2011

Biomedical Engineering Core I

Course Objective: An Introduction to biomedical engineering. The biological, chemical,

> electrical, and mechanical principles involved in the design and operation of medical devices and bioprocesses. The engineering research themes of

the School of Biomedical Engineering are emphasized: mechanical engineering, biomedical imaging, bioinstrumentation, biomedical

technology (e.g. biophotonics and medical robotics).

Dr. Hubert deBruin (ETB 407, ext. 24171) Instructors:

Dr. Qiyin Fang (ETB 403, ext. 24227) Dr. Greg Wohl (ETB 409, ext.

Dr. Michael Noseworthy (ETB 406, 905-522-1155 ext. 35218)

Dr. Alexandru Patriciu (ITB A308 ext. 20395)

ETB 533 *TA*:

Tuesdays (Starting September 13th) 10:00 – 1:00 pm **Lecture Hours:**

Presentation Days: December 13th and December 14th

Lecture Room:

50 % 5 quizzes (closed book – 30 minutes) Assessment:

(one guiz per segment, to be given at the start of class of the next segment)

Project 50 %

Oral PowerPoint presentation (12 min) followed by a Q and A session (8

min)

Policy Reminder:

The Faculty of Engineering is concerned with ensuring an environment that is free of all discrimination. If there is a problem, individuals are reminded that they should contact the Department Chair, the Sexual Harassment Officer or the Human Rights Consultant, as the problem occurs.

McMaster University Statement on Academic Dishonesty

Academic dishonesty consists of misrepresentation by deception or by other fraudulent means and can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: "Grade of F assigned for academic dishonesty"), and/or suspension or expulsion from the university. It is your responsibility to understand what constitutes academic dishonesty. For information on the various kinds of academic dishonesty please refer to the Academic Integrity Policy, specifically Appendix 3, located at:

http://www.mcmaster.ca/senate/academic/ac integrity.htm

Lecture Schedule

Dr. Hubert deBruin	3 weeks (Sept. 13, 20, 27)
Dr. Qiyin Fang	2 weeks (Oct. 4 th , 11 th)
	2 weeks (Oct. 18 th , 25 th)
Dr. Michael Noseworthy	3 weeks (Nov. 1 st , 8 th , 15 th)
Dr. Alexandru Patriciu	2 weeks (Nov 22 nd , 29 th)

Friday December 9th Student presentations (full day)

The segments on photonics, imaging and robotics will include some exposure to research laboratories.