ELE772 – Biomedical Signal Analysis

• Course Outline
  http://www.ee.ryerson.ca/undergraduate/dcd/ele772.html

• Key Knowledge to Be Acquired
  Learn more about your own biological processes, such as how your brain controls the function of your body, solves problems, and generates signals that could be interpreted through signal analysis. Would you like to help others in your career, such as by developing a better heart monitor? This course will give the basic knowledge through which you can embark on a biomedical career, and provide you with lots of practical knowledge for yourself and your loved ones.

• Key Skills to Be Mastered
  Basic knowledge of Physiological systems and processes. Understanding of biomedical signals, their source and their recording. Application of signal analysis techniques in the time and frequency domains to filter and identify important components. Medical decision making.

• Potential Careers
  Biomedical devices engineering and development, Regulatory Policies in the Medical sector, Medicine.

• Potential Employers
  Siemens, GE, Baylis, Medtronic, Laborie Medical, Toronto Rehabilitation Institute, and any of the many Hospitals in Toronto such as the University Health Network, and elsewhere.

• Graduate Studies
  Carleton, Calgary, Toronto, McMaster, UBC, McGill, etc., have strong graduate programs in Biomedical Engineering. Medical School is also an exciting option.