Human factors (or cognitive ergonomics) refer to the study of how people interact with their environment by focusing on the sensory, perceptual and cognitive limitations of the human performer. This course is designed to provide an upper level review of the principles of this science by presenting a systematic application of relevant information about human capabilities, limitations and behaviours with regard to the design of human-machine systems and their use within specific environments. Emphasis is placed on the interactive nature of these systems, the development of ergonomic models and, the techniques used to assess the design of modern workplaces.

Please note: this graduate course outline is subject to change based on learning needs of the enrolled cohort. Changes will be undertaken and are the decision of the instructor. Where there are conflicts, the instructor’s version of the outline is deemed to be correct.

August 30, 2009