The course covers a variety of topics in Human Factors / Ergonomics research related to the acquiring, analysing, and modelling of human behavioural data. Topics to be covered include the following (in approximate order of presentation):

- Selecting Measures for Human Factors Research
- Psychophysical methods of measurement:
  - Classical psychophysical methods
  - Signal Detection Theory
  - Indirect and direct subjective scaling
- Protocol Analysis
  - Interviewing and Questionnaires
  - Knowledge Elicitation
- Estimating mental workload & situational awareness
- Manual Control
  - Tracking paradigms
  - Modelling of human manual control performance

Assessment in the course will be on the basis of 3 term assignments, to be carried out in groups. There will be no final examination.

Literature will consist of published papers, with (most) references available either on the course web page or in the UofT library.

*********

NB: This course is designed for graduate students who are doing human factors (or related) research. If you are interested in an overview / introductory course in Human Factors, this is probably not a suitable course for you. You might instead consider taking either MIE1407F or MIE1411S.