

## **Introduction to Ergonomics**

Kinesiology 180

Section: D100

Term: 2008 Fall

Instructor: Anne-Kristina Arnold, M.Sc.

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Discussion Topics: Objectives:

This introductory course is intended for students with a potential interest in ergonomics or human factors. It surveys major ergonomic and human factors issues including: the design of work, the workplace environment, information systems, and consumer products. Topics include musculoskeletal disorders, manual materials handling, workplace design, organization of work, design of human/machine interfaces, environmental ergonomics, industrial design, and legal and social issues. NOTE that this course is a pre-requisite to other courses in the ergonomics stream and is designated as a W course.

This course will enable the student to understand how the application of ergonomic principles can create safer, healthier, more productive, and more satisfying environments.

Topics will include:

Introduction to Ergonomics and Human Factors

Work-related Musculoskeletal Disorders

Psychology of work

Environmental Issues

Human Computer Interaction

Product Design

Legal, Ethical and Social Issues

Grading: 4 Quizzes - 12%

Assignment 1 - 10%

Assignment 2 - 20%

Assignment 3 - 20%

## **Introduction to Ergonomics**

Midterm - 13%

Final - 25%

Required Texts: Introduction to Ergonomics, R.S. Bridger, Taylor and Francis, 2003 (ISBN 0-415-27378-1).

Recommended Texts:

Materials/Supplies:

Prerequisite/Corequisite: Prerequisites:

Grade 12 Biology or Physics, Grade 12 Math

Notes: Failure to attend an examination

Students who miss examinations due to exceptional circumstances (such as serious illness or compassionate reasons) are required to obtain a physician's certificate, whereby the physician states that you were unable to write your midterm or final on the set date due to a medical condition beyond your control, or other supporting documents in order to obtain consideration in the course. Such documents must be filed with the School Director (via the Kinesiology office) or Registrar within four calendar days of the date on which the examination was to have been written. Exceptional circumstances must be approved by the Undergraduate Program Committee in order for a student to receive consideration.

Students must check the exam schedule when making course selections. Students are reminded that final examinations may be scheduled at any time during the examination period and that students should avoid making travel or employment arrangements for this period.

Academic honesty and student conduct

Academic honesty is a condition of continued membership in the University community.

Academic dishonesty, including plagiarism or any other form of cheating is subject to serious academic penalty, i.e. failure on an assignment, failure in a course, suspension or expulsion from the University.

The University codes of student conduct and academic honesty are contained in policies T10.01 and T10.02 which are available in the Course Timetable and on the Web via <http://www.reg.sfu.ca>.

July 2000

This outline is derived from a course outline repository database that was maintained by SFU

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Student Services and the University's IT Services Department. The database was retired in 2014 and the data migrated to SFU Archives in 2015.