

INEG 4723 - Ergonomics

Instructor: Steve Johnson, Professor of Industrial Engineering

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Office Hours: Tuesday: 8:30- 9:00; 11:00-12:00; and 3:30-4:30
Thursday: 11:00- 1:30 and 3:30-4:30
Other times by appointment

Textbook: *Work Design: Occupational Ergonomics* (6th Edition) by Stephan Konz and Steven Johnson. Phoenix, AZ: Holcomb Hathaway Publishers, 2004.

Grading: Two one-hour tests (20% each)
Comprehensive final examination (20%)
Literature review: 20 %
Laboratory projects: 20% (Pass/Fail)
Class assignments and quizzes will be integrated into the test scores (e.g., an individual assignment might be worth five points on the next exam).
[Grading is on a 90, 80, 70, 60 system]

Sequence of Topics and Reading Assignments:

Course Introduction and Project Description
Overview and History [Chap 1, 2 and 3]
Anthropometry and Workplace Design [Chap 5 and 13]
Work Physiology [Chap 4]
Temporal Aspects of Work [Chap 21]
Thermal Regulation and Heat Stress [Chap 25]

First Test

Biomechanics and Manual Handling [Chap 4, Chap 15 and Handouts]
Musculoskeletal Disorders [Chap 14]
Design and Use of Hand Tools [Chap 16]
Ergonomic Job Analysis Tools [Handouts]
Managing an Ergonomics Program [Chap 22]

Second Test

Human Information Processing and Error Reduction [Chap 19]
Vision and Lighting [Chap 23]
Visual Displays [Chap 18]
Design of Controls [Chap 17]
Audition, Noise and Hearing Loss [Chap 24]

Final Exam

Inclement Weather Policy:

The only time that class will be cancelled is when the University is officially closed.