

*OSEM 103: Introduction to Ergonomics*

**Course Description and Goals:**

In this course students will be exposed to basic materials designed to improve their knowledge of Ergonomics. Students will have the opportunity to acquire and develop skills and be given the opportunity to apply those skills by conducting ergonomic projects and through class participation.

**Course Objectives: Upon completion of this course students are expected to :**

- Discuss the fundamental principles and basic applications of all areas of ergonomics
- Explain the interaction between people and machines and factors that affect the interaction
- Describe how ergonomics problems affect the work environment
- Develop an ergonomic assessment checklist and evaluate a workplace environment.
- Design and conduct an ergonomic assessment
- Develop and implement an ergonomic intervention

**Course Requirements: Students are required to complete all of the following:**

Homework I.....	10 Points
Homework II.....	10 Points
Quiz I.....	15 Points
Quiz II.....	15 Points
Small group case project (10 typewritten pages).....	20 Points
Final Exam (Oral presentation of ergonomic intervention...)	100 Points

Note: There will be various opportunities to receive bonus points

**Grading Scale: A = 180-200 B = 160-179 C = 130-159 D = 100-129 F=>100**

**Required Textbook: INTRODUCTION TO ERGONOMICS 2<sup>ND</sup> EDITION;  
R.S. BRIDGER**

Final grades are permanent. Final “I” grades will not be allowed in this class. Final “N” grades will be given only in very rare and exceptional cases.

HCC Grading Policies:

- a. No Show Policy. Students must attend both of the first two class sessions of the semester or may be dropped unless they notify the instructor or the Division Chair in advance.
- b. Disappear Policy: Students may receive an “F” grade if they do not officially drop their course by the drop deadline listed in the HCC Academic Calendar or the schedule of classes.

**Emergency Procedures:**

- a. Location of first aid kit:
- b. Evacuation of building: Use Diamond Head and Ewa stair and proceed to parking lot #2 (by the cafeteria). Assemble and wait for further instructions from the instructor.
- c. Accident or Injury During Evening, after 4:30pm.
  - 1. Call 911 for an ambulance. Give essential information
    - Location – building and room number, road to enter campus
    - Type of emergency and victim's condition
    - Your name and phone number
  - 2. Call extension 247 or 284-1270 (cell – Security)
    - To notify Campus Security that an ambulance has been summoned
    - To have Campus Security escort the ambulance to the location
    - To request other assistance

## Course Schedule

<b>Week</b>	<b>Topic</b>	<b>Assignment</b>	<b>Comment</b>
1	Introduction	Pages 1 - 57	Bring in Newspaper Article
2	Discuss Chapter 1 & 2, Chapter Exercises	Pages 58 - 88	There will be a PowerPoint presentation
3	Discuss Chapter 3, Chapter Exercise	Pages 89 - 120	There will be a video. Homework 1- Analysis
4	Discuss Chapter 4, Chapter Exercises	Pages 121 - 157	
5	Quiz on Chapter 1 - 4. Discuss Case Studies		There will be a video. Form teams for group project.
6	Library Week work on Group Projects	Pages 158 - 186	
7	Discuss Chapter 5, Chapter Exercises	Pages 187 - 213	
8	Discuss Chapter 6, Chapter Exercises	Pages 214 - 232	There will be a PowerPoint presentation
9	Group Presentations on Work Place analysis		
10	Discuss Chapter 8, Chapter Exercises. Discuss Design and implementing ergonomics intervention project.	Pages 233 - 294	
11	Quiz on Chapter 5, 6, and 8. Discuss Chapters 9 & 10, Chapter Exercises	Pages 295 - 328	
12	Discuss Chapter 11, Chapter Exercises	Pages 260 435	
13	Discuss Chapter 13, 14, Chapter Exercises	Pages 436 - 476	
14	Discuss Chapter 15, Chapter Group Exercises	Pages 477 - 508	
15	Discuss Chapter 16, Chapter Exercises. Start final Presentation		
16	Continue Final Presentations		
17	Final Exam		