



**IE 417**  
**OCCUPATIONAL HEALTH**  
**AND**  
**SAFETY**  
**Fall 2024**

**Instructor:** F. Figen EREN  
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**Course Description:**

This course is designed to teach the fundamentals of occupational health and safety with the emphasis on civil engineering activities. The topics covered in the course are statistical analysis of the accidents and injuries in civil construction sites, the economical aspects of accidents and injuries in construction sites, operational structure of agencies related to occupational health and safety, type of injuries and occupational hazards in construction related activities, engineering and management side of health and safety in construction, and legal aspects and standards in Turkey.

**Class hours:** Thursday 09:20-12:10

**Office hours:** Monday 11:20-12:10

**Supplementary course material:**

Phil Hughes, Ed Ferrett, Introduction to Health and Safety in Construction, Routledge, 2011

978-0-08-097068-4

Allan St John Holt, Principles of Construction Safety, Blackwell, 2001

9781405134460

### **Tentative Course Schedule:**

<b>Week</b>	<b>Topic</b>
1	Statistical Analysis of Turkish Construction Accidents (TUISAG datum)
2	Why are Health and Safety Regulations Needed
3	Health and Safety Organizations
4	Comparison of Construction Health and Safety in the World and in Turkey
5	Analysis of Injuries and Various Health Problems Related to Construction Activities
6	Physical Work Environment (Different Types of Construction Sites)
7	Physiology and Anthropometry Aspects of Manual Work
8	Physiology and Anthropometry Aspects of Mechanical Work
9	Cognitive Ergonomics in Construction Machinery
10	Engineering and Management Design for Safe Construction
11	Legal Aspects and Standards
12	Legal Aspects and Standards
13	Invited Speaker about Health and Safety Issues in Turkish Construction Sites
14	Review

<b><u>Grading:</u></b>	Midterm	30%
	Final Exam	40%
	3 Home Works	30%

**Home Work:** You will be assigned several homework questions and you are supposed to solve them together with your group members, and return a single answer paper per group.

*Upload the names of your HW group members (minimum 2 - maximum 3 students)*

**Make-Ups:** There will be a single make-up exam for midterm and for final for students with a valid excuse. There is no make-up for the make-up exams.

**Web page:** Every student is responsible to check the page of the course, [webonline.cankaya.edu.tr](http://webonline.cankaya.edu.tr), regularly (at least twice a week). All the related announcements, lecture notes, grades, attendance and other information will be uploaded.

**Academic Integrity:** The students, who are expected to be a graduate of Çankaya University are expected to act honestly and ethically. Therefore, any form of dishonesty will not be tolerated. This means throughout this course, you only get credit for your (in exams) or your scheduled group's individual work.

*Honor Code: Every Çankaya University student should declare her/his understanding and belief in the Honor Code stated by the department for the examinations and assignments:*

*Exam:*

Please read the following Honor Code carefully. Then write I agree. [Kabul ediyorum.] and sign underneath to show your understanding and belief in the Honor Code.

*I hereby declare that I have neither given nor received any aid during the exam. [Sınav sırasında hiç kimseden hiçbir şekilde yardım almadığımı ve hiçbir kimseye hiçbir şekilde yardım etmediğimi beyan ederim.]*

*Assignment:*

For individual assignments, each student (for team work assignments, only one member of the study team) should write the following Honor Code with her/his own handwriting on the cover page of your assignment report, and each student should sign underneath.

*I(We) hereby declare that, except where I (we) have indicated, the work I (we) am (are) submitting in this assignment (project, report, ...)is my (our) own work. [Sunmakta olduğum (olduğumuz) bu ödevin (projenin, raporun,...), belirttiğim (belirttiğimiz) kısımların haricinde, tamamen kendi eserim (eserimiz) olduğunu beyan ederim (ederiz).]*

***NOTE THAT EVERYTHING ON THIS SYLLABUS IS SUBJECT TO CHANGE.  
STUDENTS WILL BE NOTED ABOUT ANY CHANGE.***