

ENGR 100: Introduction to Computer Engineering

Spring 2008 Course Information

Instructor: Serdar Taşiran

Contact info: ENG 226 stasiran@ku.edu.tr, 212-338-1748

Office hours: Mondays and Wednesdays, 10:30-11:30 am

Teaching Assistants:

Ergun Biçici (ebicici@ku.edu.tr), Office Hours: Tue, Thu 17:00-18:00, ENG-228, Ext. 2641

Ömer Kırkağaçoğlu (okirkagacioglu@ku.edu.tr) Office Hours: Mon, Wed 12:30-13:30, ENG-Z20, Ext. 1735

Lectures: Mondays and Wednesdays 3:30-4:45 pm, ENG B30

Course home page: <http://ais.ku.edu.tr/course/10706/Default.html>

Textbook: *Computer Science: An Overview. 8th Edition*,
J. Glenn Brookshear, Pearson/Addison-Wesley, 2005

Grading policy:	Homeworks	20 %
	Labs	20 %
	Midterm examination	30 %
	Final examination	30 %

Any duplication in any classwork or examinations will be regarded as cheating and will be prosecuted to the fullest extent allowed by university policy regarding academic dishonesty. We will look for duplication in all submitted work **extremely carefully**.

Attendance Since this is a freshman class, you will receive a failing (F) grade if you miss more than 1/3 of the lectures, even if you have a valid excuse.

Lab sessions We will be holding lab sessions in parallel with the lectures. The goal of these lab sessions is to help you understand how what you learn in lectures is used for solving practical computer engineering problems.

The first two lab sessions will focus on using Matlab to solve several simple problems. You are expected to read the lab manual for that week before coming to the lab session to utilize your and our time efficiently. We might give little quizzes before the lab session begins to "encourage" you to read the lab manual. These quizzes might affect your lab grade and final letter grade.

At the beginning of each lab session, the TA's will introduce you to the concepts and Matlab specifics you need know to complete the assignments for that lab. After that you will start working on the assignments. Don't think of the assignments as an exam, where you should work on your own. Don't hesitate to ask something you didn't understand to your TA without disturbing your classmates. And please don't forget that the main goal of the lab session is to help you learn and not to grade you. Be assured that you will get a good grade as long as you read the lab manual before coming to the lab and as long as you work honestly during the lab.

In the second half of the course, there will be a sequence of lab sessions during which you work on programmable robots. Information on these sessions will be made available on the course web site.

Course topics:

- Introduction to Computer Engineering (One week)
- Matlab (Approximately 6 weeks)
- Overview of Areas in Computer Engineering (Approximately 7 weeks)
 - Data Storage and Manipulation
 - Operating Systems
 - Networking and the Internet
 - Algorithms
 - Programming Languages
 - Software Engineering
 - Data Abstraction
 - Database Systems
 - Artificial Intelligence
 - Theory of Computation