

## IE 120

### Industrial Engineering: Overview and Orientation

Spring 2014

**Instructor:** Mustafa Gökçe Baydoğan (mustafa.baydogan@boun.edu.tr)

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#### Catalog Information: (1+1+0) Pass/Fail

Introduction and orientation to Industrial Engineering (IE). Concepts and approaches: illustrations of main methods and applications presented by a series of lectures given by the IE faculty; overview of departmental laboratories; basic information technologies and software including mathematical packages and web-based applications.

**Course Objectives:** This is a required orientation course designed for beginning freshmen to inform them about main concepts, goals and options of industrial engineering program, and to introduce the faculty and departmental research facilities along with basic literacy on relevant information technologies.

**Grading:** Grades are based on attendance. Students are expected to attend all lecture periods. Excused absences must be approved by the course instructor; however there cannot be more than one absence during the semester. The course is graded Pass/Fail without a final examination.

#### Weekly Schedule:

<i>Week</i>	<i>Date</i>	<i>Topic</i>	<i>Instructor</i>
1	Feb. 20	Overview and Organization of the Course	Mustafa Gökçe Baydoğan
2	Feb. 27	Systems Modelling and Simulation	Yaman Barlas Gönenç Yücel
3	Mar. 6	Mathematical Modeling in Industrial Engineering	Kuban Altınel
4	Mar. 13	Design in Industrial Engineering (Facility design)	Ümit Bilge
5	Mar. 20	Scheduling	Ali Tamer Ünal
6	Mar. 27	Concepts of Quality and Ethics	Ali Rıza Kaylan
7	Apr. 3	Decision Analysis	Taner Bilgiç
8	Apr. 10	Working with Data	Mustafa Gökçe Baydoğan
9	Apr. 17	Optimization in Healthcare	Caner Taşkın
10	Apr. 24	<b>SPRING BREAK</b>	
11	May 1	<b>LABOR DAY</b>	
12	May 8	Risk Analysis in the Strait of İstanbul	İlhan Or
13	May 15	Ergonomics in Industry	Mahmut Ekşioğlu
14	May 22	Dealing with Uncertainty: Probability and Statistics	Aybek Korugan