

King Fahd University of Petroleum & Minerals
CIVIL ENGINEERING DEPARTMENT

CE 260
Surveying I

First Semester 2002-2003
(021)

- *Instructor* : Dr. Mohammad A. Al-Sughaiyer
- *Office Location* : 17-103
- *Telephone* : 3587 / 2997
- *Textbook* :
 - Kavanagh, Barry F. and S.J. Gleen Bird, Surveying Principles and Applications, Fifth Edition, Prentice-Hall, New Jersey
 - Nedal T. Ratrout, Surveying Laboratory Manual, KFUPM Press, August 2001.

Undergraduate

Course Description : Introduction; measuring units, significant figures, direct distance measurement with tapes; taping corrections, electronic distance measurements, levels and leveling, profiles and cross-sections, contouring, area and volume computations, theodolites and angle measurements, optical distance measurement, rectangular coordinates in plane surveying, traverse surveys and computations, mapping with area polygon method.

Course

Requirements : Students will be expected to attend all the lectures and labs unless they have approved excuse. There will be three one-hour midterm and a comprehensive final exams. Students will be assigned homeworks. For each lab session a lab report will be prepared and submitted in the next lab session. Lab attendance and report are both required to receive a grade for that session of the lab. Students are expected to read the lab manual before they come to the lab. Since most of the lab work will be carried out in the open air, students are suggested to come prepared with appropriate clothing, hats, etc. for protection. A field lab exam will be given at the end of the semester to evaluate the students' familiarization with the instruments.