

Syllabus:

Chem 306 Instrumental Analysis II

Prof. Dr. Şerife H. Yalçın

Office: Math Building No: 110, Ext:7624

Lab: MBG building no: K05

Hours: Monday: 13:30 - 15:15 Classroom- Math-Z3
Wednesday: 10:45 - 12:30 Classroom- Math-Z3

Text to follow: any one of the following editions;

“Instrumental methods of Analysis”, 5th ed. Skoog, Holler, Nieman

“Instrumental methods of Analysis”, 6th ed. Holler, Skoog, Crouch

“Instrumental methods of Analysis”, 7th ed. Holler, Skoog, Crouch

Course notes: 1) On Microsoft Teams after you have added in a class.

2) On <http://www.iyte.edu.tr/~serifeyalcin/chem306.htm>

Course Objective: To familiarize the student with the recent spectroscopic, electrochemical, and chromatographic analysis techniques and instruments in modern Analytical Chemistry.

Grading and Exams: During the semester, there will be (2) written and (1) final exam.

Topics to be covered during the semester:

- Molecular Spectroscopy; IR Spectroscopy
- Electroanalytical Techniques, Potentiometry, Coulometry, Voltammetry
- Chromatographic Separations, GC, HPLC, IC, TLC

Course Grading and Examination Dates:

Mid Term I March 26 th 2025

Mid Term II May 14 th, 2025

Final to be determined

Assignments from the “end of chapter questions” are due after each chapter is covered in the classroom.