

BIEN 267. BIOANALYTICAL METHODS IN BIOENGINEERING.

Credits: 3

Offered by: Bioengineering (Faculty of Engineering)

Terms offered: Fall 2025

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Description

Survey of qualitative and quantitative methods of analysis in Chemistry, Biochemistry and Molecular Biology and their relevance to bioengineering. Techniques for the determination and experimental analysis of chemical metabolites and biological macromolecules emphasizing the following subjects: analytical process, common analytical tools, chemical equilibrium, basic spectroscopy, chromatography and separation methods, metabolite and protein extraction, protein purification methods and quantitative determination, high performance liquid chromatography, western blotting. An introduction to modern instrumental analysis highlighting gas- and liquid chromatography coupled with mass spectrometry and computational data analysis. Strengths and weaknesses of each method.

- Prerequisites: BIEN 290

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