

BIEN 520. HIGH THROUGHPUT BIOANALYTICAL DEVICES.

Credits: 3

Offered by: Bioengineering (Faculty of Engineering)

This course is not offered this catalogue year.

Description

Introduction to the field of high throughput screening (HTS) analytical techniques and devices used for genomics, proteomics and other "omics" approaches, as well as for diagnostics, or for more special cases, e.g., screening for biomaterials. Introduction into the motivation of HTS and its fundamental physico-chemical challenges; techniques used to design, fabricate and operate HTS devices, such as microarrays and new generation DNA screening based on nanotechnology. Specific applications: DNA, protein and diagnostic and cell and tissue arrays.

- Prerequisite: Permission of instructor.
- (3-0-6)

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