BIEN 680. BIOPROCESSING OF VACCINES.

Credits: 4

Offered by: Bioengineering (Graduate Studies)

Terms offered: Winter 2026

View offerings for Winter 2026 in Visual Schedule Builder.

Description

Building on recent developments and expansion in the mammalian cell culture for production of complex biologics such as viral vaccines and viral vectors, the following topics will be covered: Principles of immunology and industrial virology; Cell physiology for vaccine production; Cell lines for vaccine production; Upstream process development and process intensification strategies; Purification and downstream processing of viral vaccines; Analytical and potency assays; Formulations and delivery of vaccines; Basics of clinical trials and regulatory principles; Immunization policies. Case studies on bioprocessing/manufacturing licensed vaccines.

· Prerequisite: Permission of Instructor.

Most students use Visual Schedule Builder (VSB) to organize their schedules. VSB helps you plan class schedules, travel time, and more.

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