BIEN 602. BIOMANUFACTURING FOR RNA BIOLOGICS

Credits: 3

Offered by: Bioengineering (Graduate Studies)

Terms offered: Winter 2026

View offerings for Winter 2026 in Visual Schedule Builder.

Description

Fundamental and quantitative overview of RNA biologics. Introduction to RNA biologics associated biomanufacturing unit operations in upstream (design tools and large-scale production systems of DNA templates for in vitro RNA transcription; small-scale and large-scale RNA bioprocessing systems), and downstream approaches for RNA purification (like Tangential flow filtration and RNA-specific chromatography systems) for emerging mRNA therapeutics. Introduction to established and emerging applications of RNA biologics for gene and cell therapy.

- · Prerequisites: BIEN 590 or permission of the instructor
- · Corequisites: BIEN 670
- The course includes guest lectures from academic and industry experts in the field of RNA as therapeutics for synthesis, purification, formulation and scale-up of RNA biologics.

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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