



THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Biotechnology and Bioprocess Engineering

CBE 5766

Credit Hours:

3.00 - 3.00

Course Levels:

Undergraduate (1000-5000 level)

Graduate (5000-8000 level)

Course Components:

Lecture

Course Description:

Fundamentals of biotechnology and their applications to bioprocessing with emphasis on fermentation and bioseparation.

Prerequisites and Co-requisites:

Prereq: Jr standing in CBE, or permission of instructor. Completion of Bio 1113 or 2100 is recommended.

Course Goals / Objectives:

- Be exposed to the field of biotechnology and bioprocess engineering
 - Begin to understand what is involved in the development of a commercial bioprocess
 - Be exposed to social/political/economic issues surrounding
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Course Topics:

- Fundamentals and Applications of Biotechnology
 - Recombinant Protein Technology
 - Industrial Fermentation
 - Animal Cell Culture
 - Downstream Processing/Bioseparations
 - Bioprocess Design
 - Downstream processing and separations
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Designation:

Elective