



THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Unit Operations III

CBE 3732

Credit Hours:

2.00

Course Levels:

Undergraduate (1000-5000 level)

Course Components:

Lecture
Lab

Course Description:

The fundamental laboratory course in chemical engineering: laboratory investigation of the operating characteristics of chemical engineering equipment.

Prerequisites and Co-requisites:

Prereq: 3731, or permission of instructor.

Course Goals / Objectives:

- After completing the course, students will be able to:
 - Design and conduct laboratory experiments
 - Compare experimentally measured results with literature data and quantify the sources of error that contribute to differences between measured data and literature data
 - Prepare high quality written technical reports and oral presentations to summarize a project in a professional and informative manner
 - Work effectively as a member of a team, both as a team member and as a team leader
 - Work safely in a laboratory by carrying out Safe Operating Procedures, using Personal Protective Equipment properly and consistently, and by properly handling, storing, and disposing of chemicals
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Course Topics:

- laboratory and workplace safety
 - technical writing, teamwork skills
 - experimental design
 - process design
 - hands-on experience with industrial chemical process equipment
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Designation:

Required