

INTRODUCTION TO UNIT OPERATIONS

This section gives a major overview of the course.

The purpose of the Unit Operations course is:

- Gain expertise in running realistic chemical engineering equipment for a variety of unit operations.
- Develop skills in leading a group in the planning and completion of a project.
- Practice a developing an experimental plan and presenting it to a group.
- Use of chemical engineering theory learned in class-room courses.
- Preparation of technical reports which present the experimental results and which provide a chemical engineering analysis.

Before beginning experimental work, the course covers information on safety in chemical laboratories. It is essential that an engineer has the background to work safely in a laboratory, pilot plant, or commercial plant situation. Acquiring knowledge of safety techniques and potential hazards is an on-going part of an engineers education.

This introduction sections also provides some information on the preparation of oral presentations and technical reports. Effective communication plays a crucial role in the professional success of an engineer; the provided information can be considered as a starting point.

Experimental summaries are provided for each experimental. These are provided to orient the group to what is expected and general outline of how the data can be interpreted.