

## CH402 CHEMICAL ENGINEERING PROCESS DESIGN

### **Lab 4:** Condenser, Reflux Drum, Reflux Pump, and Reboiler Costs in Distillation

**Read:** Project Handout

**Problems:** None

#### **Objectives (Cadets will be able to):**

1. Use realistic design constraints with CHEMCAD to design a condenser, reflux drum, reflux pump, and reboiler for a distillation process.
2. Use CHEMCAD with design heuristics to design heat exchangers.
3. Use safety data sheets to make preliminary safety and environmental assessments of a process.
4. Run a dynamic simulation in CHEMCAD

#### **Definitions:**

None.

#### **Cadet Notes:**