



## Industrial Chemical Technology Workforce Certificate Program

This program is designed for persons currently in the workforce who desire specific training and education in the chemical process industry.

Along with general education study in communication and chemistry, students study key safety and environmental regulations and common industry practices, as well as unit operations and process control schemes.

A capstone project provides students with the opportunity to demonstrate the knowledge required of a chemical plant operator in a real, hands-on manner.

This workforce certificate program assumes that students entering this program possess math and writing skills necessary for the program's course-work.

Students entering the program will take a placement test, and may be required to take developmental coursework in the areas if indicated by the placement tests.

### **General Education course:**

\_ COM 252 *Introduction to Interpersonal Communication*

### **Technical courses:**

- \_ CHE 145 *Introduction to General Chemistry*
- \_ ICT 104 *Technical Chemistry Laboratory*
- \_ ICT 185 *Introduction to Industrial Chemical Technology*
- \_ ICT 190 *Chemical Engineering Fundamentals*
- \_ ICT 220 *Unit Ops I--Fluid Mechanics*
- \_ ICT 230 *Health, Safety, and Environmental Practices*
- \_ ICT 240 *Units Ops II--Mass and Heat Transfer*
- \_ ICT 250 *Process Systems and Control*
- \_ ICT 280 *Capstone in Industrial Chemical Technology*
- \_ ENGT 110 *Circuits 1*