

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 course-work in the areas if indicated by the placement tests.

General Education course:

- COM 252 *Introduction to Interpersonal Communication*

Technical courses:

- CHE 104 *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*
- ETT 101 *Survey of Electricity*

Sample course schedule for ICT Workforce Certificate (assumes no developmental course-work is needed)

FIRST YEAR

Fall Semester:

Full term courses:
 CHE 104 3 cr. hrs.
 ICT 104 1 cr. hr.

1st 8 weeks courses:
 ICT 185 1 cr. hr.
 ICT 230 3 cr. hrs.

2nd 8 weeks courses:
 ICT 220 3 cr. hrs.
 COM 252 3 cr. hrs.

Spring Semester:

1st 8 weeks courses:
 ICT 190 2 cr. hrs.
 ICT 240 3 cr. hrs.

2nd 8 weeks courses:
 ICT 250 3 cr. hrs.
 ETT 101 4 cr. hrs.

SECOND YEAR

Summer Semester:

Full term courses:
 ICT 280 2 cr. hrs.

For more information contact:

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