

CHEMICAL TECHNOLOGY - CERTIFICATE



CHMC

The chemical industry is one of the fastest growing industries in the United States. The need for trained technicians in quality control, analysis, and research and development laboratories is extensive.

The two-year Chemical Technology certificate program prepares graduates to enter the chemical field in any one of a variety of capacities – chemical research technician, laboratory assistant, chemical production technician, junior chemist or analytical technician. The program is structured to develop a fundamental understanding of general, organic and analytical chemistry, with emphasis on laboratory applications and techniques. This two-year certificate program consists of the core Chemical Technology courses and an English course.

Program Learning Outcomes

Upon completion of this program, a student will be able to:

1. Display a strong "Workplace Ethic" by exhibiting reliability, promptness, and a positive work attitude.
2. Work effectively as a member of a team including managing a team by providing direction and motivation and collaborating effectively with other team members.
3. Develop problem solving skills that relate to the chemical industries including conducting experiments, analyzing results, using computers and data management systems, performing chemical calculations, and conducting separation techniques and various forms of spectrophotometric, gravimetric, and volumetric analyses.
4. Maintain a Safe and Clean Lab by adhering to all safety protocols including recognizing hazards, assessing and minimizing risks, and preparing for emergencies in the laboratory including using SDS, personal protective equipment and engineering controls, and understanding emergency response equipment.
5. Effectively communicate orally and in written form using appropriate chemical terminology.

Certificate Requirements

Code	Title	Hours
CHMT 1120	Chemical Technology I	6
CHMT 1220	Chemical Technology II	6
CHMT 2321	Chemical Technology III	5
CHMT 2322	Chemical Technology IV	5
CHMT 2421	Chemical Technology V [^]	8
ENGL 1010	Composition I (or ENGL 1010A) ^{HUMN; Written Communication; Information Literacy}	3
Subtotal		33
Total Hours		33

[^] Work-based learning course

Recommended Course Sequence

Course	Title	Hours
Year 1		
Semester 1		
CHMT 1120	Chemical Technology I	6
ENGL 1010	Composition I (or ENGL 1010A)	3
Hours		9
Semester 2		
CHMT 1220	Chemical Technology II	6
Hours		6
Summer Session		
CHMT 2321	Chemical Technology III	5
Hours		5
Year 2		
Semester 1		
CHMT 2322	Chemical Technology IV	5
Hours		5
Semester 2		
CHMT 2421	Chemical Technology V [^]	8
Hours		8
Total Hours		33

[^] Work-based learning course