

CHEMICAL TECHNOLOGY

Pathway: Applied Sciences

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Award Title	Academic Plan	Award Type	GE Units	Required Course Units	Major Elective Units	Major Units
Chemical Technology	T002913C	A.S.	21*	38	-	38
Chemical Technology	T021859D	C		38	-	38

At least 60 degree applicable units are required to earn an Associate degree.
 *GE Units requirements may be fulfilled by completing any General Education Pattern; please consult with a counselor for more details.
 These programs are Financial Aid Eligible.

PROGRAM OVERVIEW

The goal of the Chemical Technology Program is to provide training and instruction in foundational science theory, applied chemistry, instrumentation, quality control and industrial processes; leading to career technical certificates, associate degrees and gainful employment.

The Chemical Technology Degree and Certificate are designed to prepare students for employment in the Water Analysis, Environmental Compliance, Quality Control industry.

Career opportunities for students completing this program of study include, but are not limited to:

- Chemical Technicians
- Chemical Plant and System Operators
- Chemical Equipment Operators and Tenders
- Agricultural and Food Science Technicians

By fulfilling the program requirements, students will have the necessary knowledge and skills for working in the chemical process industry, including treatment plants; monitoring safety/health and environmental regulations; sampling and handling chemical materials; measuring physical properties; performing chemical analysis; performing instrumental analysis; planning, designing and conducting experiments, and synthesizing compounds.

PROGRAM LEARNING OUTCOMES (PLOs)

Upon completion of the **Degree/Certificate** program, students are able to:

- Perform laboratory processes consistent with industrial practice.
- Explain principles and applications of chemical instrumentation.
- Recognize and apply industrial regulatory processes.

USEFUL LATTTC LINKS:

College Catalog, Class Schedule & more: <http://www.lattc.edu/academics>

Financial Aid Office: <http://www.lattc.edu/services/financial-aid>

Counseling Services & Support: <http://www.lattc.edu/services/support>

Applied Sciences Pathway: <http://www.lattc.edu/academics/pathways/ap>

CHEMICAL TECHNOLOGY

Associate in Science Degree

Major Units: 38

Requirements for the Associate in Science degree in Chemical Technology may be met by completing 38 units of Required Courses with a grade of "C" or better along with General Education units. Information on the General Education unit requirements may be found in the catalog under Graduation Requirements.

REQUIRED COURSES

SEMESTER I	UNITS
BIOLOGY 003 Introduction to Biology	4
- or BIOLOGY 005 Introduction to Human Biology (4)	
CHEM 051 Fundamentals of Chemistry I	5
PRPLTEK 104 Introduction to Applied Sciences	4
SEMESTER II	UNITS
CHEM T 132 Quantitative and Instrumental Analysis I	5
CHEM T 133 Organic Chemistry I	4
PRPLTEK 214 Industry Trends: Employment and Regulations	3
SEMESTER III	UNITS
BIOTECH 010 Introduction to Biomanufacturing I	4
CHEM T 142 Quantitative and Instrumental Analysis II	5
CHEM T 143 Organic Chemistry II	4

CHEMICAL TECHNOLOGY

Certificate of Achievement

Major Units: 38

A Certificate of Achievement in Chemical Technology may be earned by completing 38 units of Required Courses listed under the Associates degree in Chemical Technology with a "C" or better in each course.

To register: <http://www.lattc.edu/student-guides/new-student-guide>

For additional information consult a LATTTC college counselor.