

CHEMICAL TECHNOLOGY

Pathway: Applied Sciences
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CHEMICAL TECHNOLOGY

Associate in Science Degree

Major Units: 47

Requirements for the Associate in Science degree in Chemical Technology may be met by completing 47 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
CHEM T 111	Applied Chemistry I	5
CHEM T 113	Applied Chemistry Mathematics I	2
CHEM T 140	Microbiology Laboratory Techniques For Technicians	1
PHYSICS 011	Introductory Physics	4
SEMESTER II		UNITS
CHEM T 121	Applied Chemistry II	5
CHEM T 123	Applied Chemistry Mathematics II	2
PHYSICS 029 †	Basic Physics for Technicians	4
SEMESTER III		UNITS
CHEM T 132	Quantitative and Instrumental Analysis I	5
CHEM T 133	Organic Chemistry I	4
CHEM T 168	Chemical Quality Control I	2
SEMESTER IV		UNITS
CHEM T 131	Industrial Processes	3
CHEM T 141	Basic Employment Information	1
CHEM T 142	Quantitative and Instrumental Analysis II	5
CHEM T 143	Organic Chemistry II	4

CHEMICAL TECHNOLOGY

Certificate of Achievement

Major Units: 47

A Certificate of Achievement in Chemical Technology may be earned by completing 47 units of Required Courses listed under the Associates degree in Chemical Technology with a "C" or better in each course.

Award Title	Academic Plan	Award Type	GE Units	Required Course Units	Major Elective Units	Major Units
Chemical Technology*	T002913C	A.S.	21*	47	-	47
Chemical Technology	T021859D	C		47	-	47

At least 60 degree applicable units are required to earn an Associate degree.
*This Associate Degree is eligible for a reduction of General Education requirements from 21 to 18 units; please consult with a counselor for more details.
These programs are Financial Aid Eligible.

PROGRAM OVERVIEW

The Chemical Technician (CT) or science technician occupations are becoming the fastest growing occupational category in the United States. The chemical technician generally performs laboratory analysis or testing in a wide variety of biological and physical science settings such as: environmental, drinking water, wastewater treatment, pharmaceutical, cosmetics and petroleum refineries; grading studies of materials, and quality control of industrial chemicals. Training is provided in applied chemistry, physics and mathematics as well as instrumentation, biotechnology, industrial processes, computerized analysis and quality control. The CT program is also designed to help students prepare for a smooth transition into other science related BA/BS degree programs at LATTC.

At the conclusion of this program, students will have the skills necessary 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 LATTC LINKS:

College Catalog: <http://college.lattc.edu/catalog/>

Financial Aid Office: <http://college.lattc.edu/financialaid/>

Counseling Department: <http://college.lattc.edu/counseling/>

General Education Information: <http://college.lattc.edu/catalog>

Applied Sciences Pathway: <http://pathways.lattc.edu/catalog-programs/as/>

To register: <http://college.lattc.edu/student/new-students/register-now/>

For additional information consult a LATTC college counselor.

† Course currently unavailable