

CHEMICAL TECHNOLOGY

Department: Sciences
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Award Title	Award Type	Grad. Plan	Required Course Units	Major Elective Units	Total Major Units
Chemical Technology	A.S.	Plan B	47	-	47
Chemical Technology	C		47	-	47

At least 60 degree applicable units (47 total major units and Plan B units) are required to earn an Associate degree.

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

USEFUL LINKS

LATTC Catalog

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

LATTC Financial Aid Office

<http://college.lattc.edu/financialaid/>

LATTC Counseling Department

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

Graduation Plan A

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

Graduation Plan B

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

Science Department

<http://college.lattc.edu/science>

You can enroll in these classes by logging on to the Student Information System at <http://college.lattc.edu/sic/sis/>

For additional information consult a LATTC college counselor.

PROGRAM LEARNING OUTCOMES (PLOs)

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

- Evaluate and apply knowledge of laboratory and chemical processes.
- Demonstrate good verbal and written communication.
- Practice entry level knowledge of Good Laboratory Practice (GLP)
- Practice entry level knowledge of current Good Manufacturing Practices (cGMP)
- Evaluate and apply knowledge of regulatory policies for laboratory business practices.
- Demonstrate and apply knowledge of Environmental Health and Safety Regulations for science technicians

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 "C" or better along with general education courses meeting Plan B graduation requirements. Information on the Plan B requirements may be found in the catalog under Graduation/Transfer Requirements.

REQUIRED COURSES

SEMESTER I

		UNITS	Completed
CHEM T 111	Applied Chemistry I	5	<input type="checkbox"/> _____
CHEM T 113	Applied Chemistry Mathematics I	2	<input type="checkbox"/> _____
CHEM T 140	Laboratory Techniques in Microbiology	1	<input type="checkbox"/> _____
PHYSICS 11	Introductory Physics	4	<input type="checkbox"/> _____

SEMESTER II

		UNITS	Completed
CHEM T 121	Applied Chemistry II	5	<input type="checkbox"/> _____
CHEM T 123	Applied Chemistry Mathematics II	2	<input type="checkbox"/> _____
PHYSICS 29	Basic Physics for Technicians	4	<input type="checkbox"/> _____

SEMESTER III

		UNITS	Completed
CHEM T 132	Quantitative Instrumental Analysis I	5	<input type="checkbox"/> _____
CHEM T 133	Organic Chemistry I	4	<input type="checkbox"/> _____
CHEM T 168	Chemical Quality Control I	2	<input type="checkbox"/> _____

SEMESTER IV

		UNITS	Completed
CHEM T 131	Industrial Processes	3	<input type="checkbox"/> _____
CHEM T 141	Basic Employment Information	1	<input type="checkbox"/> _____
CHEM T 142	Quantitative and Instrumental Analysis II	5	<input type="checkbox"/> _____
CHEM T 143	Organic Chemistry II	4	<input type="checkbox"/> _____

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 with a "C" or better in each course.