

PROCESS TECHNOLOGY



Pathway: Applied Sciences
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Award Title	Academic Plan	Award Type	GE Units	Required Course Units	Major Elective Units	Major Units
Process Technology	T019109C	A.S.	21*	38	-	38
Process Technology	T019108D	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 Process Technology Program is to provide training and instruction in physical and mechanical science theory, industrial equipment, processes and process variables, troubleshooting process operations and operation and maintenance of process instruments and equipment; leading to career technical certificates, associate degrees and gainful employment within the chemical, refining, oil and gas production, water, waste management, food, and related manufacturing industries.

The Process Technology Degree and Certificate are designed to prepare students for employment in the Petroleum Industry and Industrial Manufacturing industry.

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

- Electro-Mechanical Technicians
- Industrial Engineering Technicians
- Engineering Technicians, Except Drafters, All Other
- Chemical Equipment Operators and Tenders
- Power Plant Operators
- Chemical Plant and System Operators

By fulfilling the program requirements, students will have the necessary knowledge and skills for working in the refinery, biomanufacturing, petrochemical and other process industry, including waste and water treatment plants, food and related industries; monitoring safety/health and environmental regulations; sampling and handling chemical materials; measuring physical properties; operating, maintaining and controlling process instruments and equipment; understanding process operations using P&IDs and associated documents; and troubleshooting process operations.

The Process Technology Degree & Certificate are North American Process Technology Alliance (NAPTA) Associated, the standard bearer for Process Technology curriculum.

PROGRAM LEARNING OUTCOMES (PLOs)

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

- Explain industrial operations and processes.
- Recognize and perform industrial regulatory processes.
- Recognize basic scientific principles in the industrial operation.

PROCESS TECHNOLOGY

Associate in Science Degree

Major Units: 38

Requirements for the Associate in Science degree in Process 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
<i>- or BIOLOGY 005 Introduction to Human Biology (4)</i>		
CHEM 051	Fundamentals of Chemistry I	5
PRPLTEK 104	Introduction to Applied Sciences	4
SEMESTER II		UNITS
PHYSICS 011	Introductory Physics	4
PRPLTEK 102	Process Measurement and Control Fundamentals	3
PRPLTEK 200	Process Plant Systems	3
PRPLTEK 214	Industry Trends: Employment and Regulations	3
SEMESTER III		UNITS
BIOTECH 010	Introduction to Biomanufacturing I	4
PRPLTEK 103	Process Plant Equipment	3
PRPLTEK 202	Introduction to Process Plant Troubleshooting	3
PRPLTEK 204	PTECH Instrumentation - Computer Applications	2

PROCESS TECHNOLOGY

Certificate of Achievement

Major Units: 38

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

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>

To register: <http://www.lattc.edu/student-guides/new-student-guide>
For additional information consult a LATTTC college counselor.