



INDUSTRIAL SAFETY, REGULATORY AND BIOMANUFACTURING



Pathway: Applied Sciences

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Award Title	Academic Plan	Award Type	GE Units	Required Course Units	Major Elective Units	Major Units
Industrial Safety, Regulatory and Biomanufacturing	T038737D	C	-	-	-	11
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 Industrial Safety, Regulatory and Biomanufacturing certificate of achievement is designed to prepare students for employment in the industrial safety and regulatory industry. By fulfilling the program requirements, students will have a basic understanding of Industrial Safety and Regulatory concerns, as well as knowledge of the career paths available in the Applied Sciences and Manufacturing. Building upon this certificate, students have the option of continuing their coursework to complete a certificate or Associates Degree in Chemical Technology, Process Technology or Biotechnology (Biomanufacturing).

PROGRAM LEARNING OUTCOMES (PLOs)

- Students will be able to identify and describe industrial hazards, including hazards in the chemical, biomanufacturing and process industries.
- Students will be able to follow and describe cGLP and cGMP requirements.
- Students will be able to identify the main areas affected by the validation process in the biomanufacturing industry
- Students will be able to identify validation regulations that will require internal and external auditing.
- Students will be able to demonstrate mastery of appropriate industrial protocols and documentation
- Students will be able to demonstrate an understanding of the purpose, fundamentals and regulations of biomanufacturing.
- Students will be able to demonstrate an understanding of the science underlying biomanufacturing.
- Students will be able to apply techniques and procedures applicable to biomanufacturing.

USEFUL LATTC 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/academicpathways/ap>

INDUSTRIAL SAFETY, REGULATORY AND BIOMANUFACTURING

Certificate of Achievement

Major Units: 11

REQUIRED COURSES

PRPLTEK 104	Introduction to Applied Sciences	4
PRPLTEK 214	Industry Trends: Employment and Regulatory	3
BIOTECH 010	Introduction to Biomanufacturing I	4

RELATED CERTIFICATES AND DEGREES

INDUSTRIAL APPLIED SCIENCES: CORE COMPETENCIES

Certificate of Achievement

Major Units: 20

BIOTECHNOLOGY (BIOMANUFACTURING)

Certificate of Achievement/Associate of Science

Major Units: 34

CHEMICAL TECHNOLOGY

Certificate of Achievement/Associate of Science

Major Units: 38

PROCESS TECHNOLOGY

Certificate of Achievement/Associate of Science

Major Units: 38