CHEMISTRY

Pathway: Applied Sciences
Office: Cedar Hall/K - Room 405
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Award Title	Academic Plan	Award Type	GE Units	Required Course Units	Major Elective Units	Major Units
Chemistry	T031207C	A.S.	21	38	-	38
At least 60 degree applicable units are required to earn an Associate degree. This program is Financial Aid Eligible.						

PROGRAM OVERVIEW

The Associate of Science Degree in Chemistry provides students interested in the physical, health, and biological sciences with a strong academic background in chemistry and the coursework required to transfer to four year institutions or professional schools. This degree certifies a students' ability to analyze and solve problems in the field of chemistry and other fields where expertise in chemistry is required.

Chemistry related fields include the pharmaceutical sciences, food sciences, biotechnology, biomanufacturing, nanotechnology, environmental sciences, engineering and many others. Our students pursue careers in chemistry, pharmacy, medicine, dentistry, physician assistant, laboratory technician and other health or physical science related careers. The degree presents curriculum in two major concentrations; one in Chemistry and the other in Biochemistry. Thus students can select the concentration appropriate to their majors.

PROGRAM LEARNING OUTCOMES (PLOs)

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

- Apply scientific principles to explain observations.
- Perform precise, quantitative measurements using proper techniques, methods and instrumentation.
- Demonstrate problem-solving, analytical, and critical thinking skills.

CHEMISTRY

Associate in Science Degree

Major Units: 38

Requirements for the Associate in Science degree in Chemistry 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

CHEMISTRY CONCENTRATION

CHEM 101	General Chemistry I	5
CHEM 102	General Chemistry II	5
CHEM 211	Organic Chemistry for Science Majors I	5
CHEM 212	Organic Chemistry for Science Majors II	5
MATH 265	Calculus with analytical geometry I	5
MATH 266	Calculus with analytical geometry II	5
PHYSICS 001	Mechanics of Solids	4
PHYSICS 002	Mechanics of Fluids, Heat and Sound	4
-or- PHYSICS 003	*Electricity and Magnetism (4)*	

BIOCHEMISTRY CONCENTRATION

CHEM 101	General Chemistry I	5
CHEM 102	General Chemistry II	5
CHEM 211	Organic Chemistry for Science Majors I	5
CHEM 221	Biochemistry for Science Majors	5
-or- CHEM 221H	*Biochemistry for Science Majors - Honors (5)*	
MATH 265	Calculus with analytical geometry I	5
MATH 266	Calculus with analytical geometry II	5
PHYSICS 006	General Physics I	4
PHYSICS 007	General Physics II	4

TRANSFER: Students interested in transferring to a four-year college or university should visit the University Transfer Center or meet with a counselor to select appropriate transferable courses.

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.