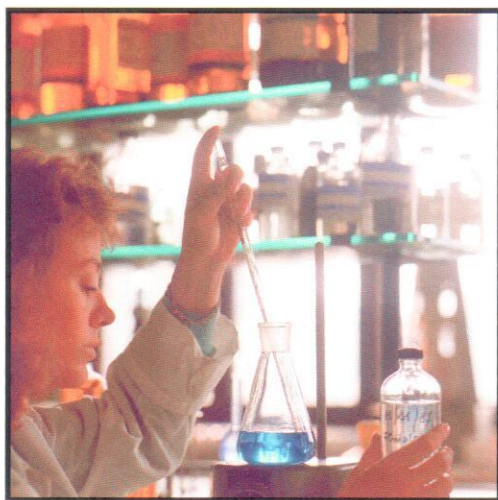


Chemistry Major 10KV0335BSLA

This chemistry major has fewer technical requirements than the Specialized Chemistry curricula but allows the most flexibility to pursue other interests including minors. Pre-professional (pre-med, pre-pharm, pre-dental or other pre-professional fields) may choose either this major or the Specialized Chemistry Curriculum (10KV0335BS).



What can you do with a Chemistry Science and Letters Degree?

Many of our undergraduate Chemistry majors go on to graduate, medical, pharmacy, optometry, law, or other schooling. Those who enter the work force with a BS degree typically choose one of three paths: education, government, or industry. Within industry, there are a number of various specialties that students can choose, including chemicals, paints, fuels (petroleum, coal, nuclear), materials (metals, wood, plastics, textiles, paper) electronics, cosmetics, agricultural products, food science, consumer products, pharmaceuticals/healthcare, environment (water, safety, natural resources, energy) product analysis/quality control, consulting/business, law, or even writing, to name just a few.

Major Requirements

30 hours

Chemistry and Biochemistry - (excluding Chemistry 101, 108, and 199) including:

- at least 12 advanced hours (courses numbered 300 or higher) in Chemistry and Biochemistry (including MCB 354 or 450) taken on this campus
- CHEM 440 or 442 and two other 300 level courses, at least one of which is outside of physical chemistry
CHEM 500 and higher courses require special permission to enroll

Mathematics - through Math 241

- The sequence is MATH 220, 231, and 241 or MATH 221, 231, and 241

Physics - The minimum work includes mechanics plus electricity and magnetism.

- The sequence is either PHYS 101 and 102 or PHYS 211 and 212

Transfer credit must be validated by the Assistant Director of General Chemistry.

The diploma for this major reads a "Bachelor of Science in Liberal Arts and Sciences." The transcript will specify "Major in Chemistry."

Departmental Distinction: Students qualify for graduation with distinction by exhibiting superior performance in both course work and in senior thesis research. To be eligible, a student must have an overall grade point average of 3.0 and must take at least 6 hours from a combination of CHEM 297, CHEM 397, CHEM 497, CHEM 499 or BIOC 492. At least 2 of the 6 hours must be CHEM 499 or BIOC 492 (Senior Thesis).

YEAR 1		HOURS	COURSE	HOURS	COURSE
Semester 1			Semester 2		
	3		CHEM 102 General Chemistry I	3	CHEM 104 General Chemistry II
	1		CHEM 103 General Chem Lab I	1	CHEM 105 General Chem Lab II
	4 - 5		MATH 220 or 221 Calculus I	3	MATH 231 Calculus II
	4		RHET 105 Composition	9	General Education/Electives
	3		General Education/Electives		
	15 - 16		Total	16	Total
YEAR 2					
Semester 3			Semester 4		
	3 - 4		CHEM 232 Elementary Organic Chemistry I	4	CHEM 332 Elementary Organic Chem II
	2		CHEM 233 Elementary Organic Chem Lab I	10	General Education/Electives
	4		MATH 241 Calculus of Several Variables		
	6		General Education/Electives		
	15 - 16		Total	14	Total
YEAR 3					
Semester 5			Semester 6		
	3		CHEM Elective	3	CHEM Elective
	5		PHYS 101 College Physics: Mech & Heat	5	PHYS 102 College Physics: E&M & Modern
	6		General Education/Electives	6	General Education/Electives
	14		Total	14	Total
YEAR 4					
Semester 7			Semester 8		
	4		CHEM 440 Physical Chemistry Principles*	3	CHEM Elective
	11		Electives	12	Electives
	15		Total	15	Total

*Fall only course