

BACHELOR OF SCIENCE, MAJOR IN FORENSIC CHEMISTRY

Students seeking background and training in the area of forensic science can get a Bachelor of Science in Forensic Chemistry with a Criminal Justice minor. This degree option educates students for careers in forensic chemistry in both private and government arenas and also prepares students to enter graduate schools in forensic science.

Bachelor of Science, Major in Forensic Chemistry

Core Curriculum (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum)

Component Area I (Communication)	6
Component Area II (Mathematics) ¹	4
Component Area III (Life and Physical Sciences) ²	8
Component Area IV (Language, Philosophy, and Culture)	3
Component Area V (Creative Arts)	3
Component Area VI (American History)	6
Component Area VII (Government/Political Science)	6
Component Area VIII (Social and Behavioral Sciences) ³	3
Component Area IX (Area IV elective or Oral Communication)	3

Degree Specific Requirements

BIOL 1411	General Botany	4
BIOL 1413	General Zoology	4
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
ENGL 3330	Intro To Technical Writing	3
MATH 1420	Calculus I ¹	4
MATH 1430	Calculus II	4
PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	4

Major Core

Major		
CHEM 1411	General Chemistry I ²	4
CHEM 1412	General Chemistry II ²	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 2401	Quantitative Analysis	4
CHEM 3438	Biochemistry I	4
CHEM 4100	Chemical Literature Seminar	1
CHEM 4367	Advanced Inorganic Chemistry	3
CHEM 4380	Forensic Chemistry	3
CHEM 4448	Physical Chemistry I	4
CHEM 4440	Instrumental Analytical Chem	4

CJ Minor (required)

CRIJ 2361	Intro To The Crim Justice Sys ³	3
CRIJ 2362	Criminology	3
CRIJ 2364	Fundamentals Of Criminal Law	3
CRIJ 3378	Intro To Methods Of Research	3
CRIJ 4385	Criminl Justc & Social Divrsty	3
FORS 3366	Forensic Science	3

Electives

Advanced electives ⁴	7
Total Hours	126

- ¹ MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.
- ² CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.
- ³ CRIJ 2361 satisfies Core Curriculum requirement for the Component Area VIII (Political Science/Government) and the CJ minor requirement.
- ⁴ Students who are interested in the graduate programs in Forensic Science at SHSU are encouraged to take BIOL 3470 and BIOL 4480 as the advanced electives.

First Year

Fall	Hours Spring	Hours
BIOL 1411	4 BIOL 1413	4
CHEM 1411 ¹	4 CHEM 1412 ¹	4
ENGL 1301 ²	3 ENGL 1302 ²	3
MATH 1420 ³	4 MATH 1430	4
	15	15

Second Year

Fall	Hours Spring	Hours
CHEM 2123	1 BIOL 2440	4
CHEM 2323	3 CHEM 2125	1
CHEM 2401	4 CHEM 2325	3
CRIJ 2361 ⁴	3 ENGL 3330	3
PHYS 1101	1 PHYS 1102	1
PHYS 1301	3 PHYS 1302	3
	15	15

Third Year

Fall	Hours Spring	Hours
Component Area IV (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiv)	3 BIOL 3450	4
CHEM 3438	4 CRIJ 2364	3
CHEM 4448	4 CRIJ 3378	3
CRIJ 2362	3 Elective (Advanced) ⁶	4
POLS 2305 ⁵	3 POLS 2306 ⁵	3
	17	17

Fourth Year

Fall	Hours Spring	Hours
Component Area IX (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)	3 Component Area V (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav)	3
CHEM 4440	4 CHEM 4100	1
Elective (Advanced) ⁷	3 CHEM 4367	3
FORS 3366	3 CHEM 4380	3
HIST 1301 ⁸	3 CRIJ 4385	3
	HIST 1302 ⁸	3
	16	16

Total Hours: 126

- ¹ Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
- ² Satisfies Core Curriculum requirement for Component Area I (Communications).
- ³ Satisfies Core Curriculum requirement for Component Area II (Mathematics).
- ⁴ Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
- ⁵ Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

- 6 BIOL 3470 recommended—provides a BIOL minor.
- 7 BIOL 4480 recommended for students interested in the Forensic Science graduate programs
- 8 Satisfies Component Area VI

Note: This sequence has a built-in minor in Criminal Justice. Students should use the elective hours to satisfy the 42-advanced hour requirement. Advanced hours are 3000 and 4000-level courses.