BACHELOR OF SCIENCE, MAJOR IN FORENSIC CHEMISTRY

Students seeking background and training in the area of forensic science can obtain a Bachelor of Science degree in Forensic Chemistry with either a Criminal Justice minor or a Forensic Science 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.

Code	Title	Hours
Bachelor of Science, Major in Forens	ic Chemistry with Criminal Justice Minor	
Core Curriculum (http://catalog.shsu curriculum/)	i.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-	
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physica	al Sciences) ²	8
Component Area IV (Language, Philo		3
Component Area V (Creative Arts)		3
Component Area VI (American Histor	ry)	6
Component Area VII (Government/Po	plitical Science)	6
Component Area VIII (Social and Beh	navioral Sciences) ³	3
Component Area IX (Area IV elective	or Oral Communication)	4
Degree Specific Requirements		
BIOL 1411	General Botany	4
or BIOL 1406	General Biology I	
BIOL 1413	General Zoology	4
or BIOL 1407	General Biology II	
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		
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		
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

Electives 72 Advanced electives ¹ 726 Code Tele Moore Bachelor of Science, Major in Forensic Chemistry with Forensic Science Minor ************************************	FORS 3366	Forensic Science	3	
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Forensic Science Minor Forensic Science Minor Coursework (18 hrs, at least 6 advanced) Electives Advanced electives ⁴ 4-10	CHEM 4448	Physical Chemistry I	4	
Forensic Science Minor Coursework (18 hrs, at least 6 advanced) 18 Electives 410	CHEM 4440	Instrumental Analytical Chem	4	
Electives 4-10	Forensic Science Minor			
Advanced electives ⁴ 4-10	Forensic Science Minor Co	ursework (18 hrs, at least 6 advanced)	18	
	Electives			
Total Hours 126-132	Advanced electives ⁴		4-10	
	Total Hours		126-132	

- 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 Major requirement.
- ³ CRIJ 2361 satisfies Core Curriculum requirement for the Component Area VIII (Social and Behavioral Sciences) 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 either BIOL 4480 or BIOL 4381 as advanced electives. Students seek licensing as Forensic Analysts are encouraged to take FORS 4317 (or alternatively MATH 3379) to meet statistics requirements to take the licensing exam (the most up to date licensing requirements can be found at https://www.txcourts.gov/fsc/licensing/). Course selections in minor and electives must ensure at least 42 advanced hours for degree.

Note: A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 2401, CHEM 4448 and CHEM 4440, and in all required Physics and Mathematics courses.

		HIST 1302*		3 16
HIST 1301 ⁸		3 CRIJ 4385 (or FORS minor course for FORS minors) HIST 1302 ⁸		3
FORS 3366 (or other FORS minor course for FORS minors)		3 CHEM 4380		3
FORS minors ⁷		5 UTLIN 4307		
CHEM 4440 Elective (Advanced) or Advanced FORS minor course for		4 CHEM 4100 3 CHEM 4367		3
#componentareaix) CHEM 4440		#componentareav) 4 CHEM 4100		1
Component Area IX (http://catalog.shsu.edu/ undergraduate/academic-policies-procedures/degree- requirements-academic-guidelines/core-curriculum/		3 Component Area V (http://catalog.shsu.edu/ undergraduate/academic-policies-procedures/degree- requirements-academic-guidelines/core-curriculum/		3
Fall	Hours	Spring	Hours	
Fourth Year		17		17
POLS 2305 ⁵		3 POLS 2306 ⁵		3
CRIJ 2362 (or FORS 3366 for FORS minors)		3 Elective (Advanced) ⁶		4
CHEM 4448		4 CRIJ 3378 (or FORS minor course for FORS minors)		3
CHEM 3438		4 CRIJ 2364 (or FORS minor course for FORS minors)		3
Component Area IV (http://catalog.shsu.edu/ undergraduate/academic-policies-procedures/degree- requirements-academic-guidelines/core-curriculum/ #componentareaiv)		3 BIOL 3450		4
Fall	Hours	Spring	Hours	
Third Year		15		15
PHYS 1301		3 PHYS 1302		3
PHYS 1101		1 PHYS 1102		1
CRIJ 2361 ⁴		3 ENGL 3330		3
CHEM 2401		4 CHEM 2325		3
CHEM 2323		3 CHEM 2125		1
CHEM 2123		1 BIOL 2440		4
Second Year Fall	Hours	Spring	Hours	
		15		15
MATH 1420 ³		4 MATH 1430		4
ENGL 1301 ²		3 ENGL 1302 ²		3
CHEM 1411 ¹		4 CHEM 1412 ¹		4
BIOL 1406 (or BIOL 1411)		4 BIOL 1407 (or BIOL 1413)		4
Fall	Hours	Spring	Hours	

- 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). Students who are Forensic Science minors may choose a different Area VIII course, for Criminal Justice minors this course counts both in the core and in the minor.
- ⁵ Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
- ⁶ BIOL 3470 recommended—provides a BIOL minor.
- ⁷ BIOL 4480 or BIOL 4381 recommended for students interested in the Forensic Science graduate programs.
- ⁸ Satisfies the Core Curriculum requirement for Component Area VI (History).

Notes

A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 2401, CHEM 4448 and CHEM 4440, and in all required Physics and Mathematics courses.

This sequence has a built-in minor in Criminal Justice, with alternatives for Forensic Science minors listed. Students should use the elective hours to satisfy the 42-advanced hour requirement. Advanced hours are 3000 and 4000-level courses.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Forensic Chemistry is designed to provide graduates with the following marketable skills:

- · Work safely with standard chemicals in a chemistry laboratory.
- · Keep thorough and accurate records of chemistry experiments.
- · Write final research reports and orally present results of experiments.
- · Analyze and interpret experimental data, including spectrophotometric data.
- · Understand the use of the major methods of purification of chemical compounds, including chromatographic techniques.