

# 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](http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum))

Component Area I (Communication)	6
Component Area II (Mathematics) <sup>1</sup>	4
Component Area III (Life and Physical Sciences) <sup>2</sup>	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) <sup>3</sup>	3
Component Area IX (Area IV elective or Oral Communication)	3

## Degree Specific Requirements

MATH 1420	Calculus I <sup>1</sup>	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
ENGL 3330	Intro To Technical Writing	3
BIOL 1411	General Botany	4
BIOL 1413	General Zoology	4
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4

## Major Core

<b>Major</b>		
CHEM 1411	General Chemistry I <sup>2</sup>	4
CHEM 1412	General Chemistry II <sup>2</sup>	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 4448	Physical Chemistry I	4
CHEM 4100	Chemical Literature Seminar	1
CHEM 4440	Instrumental Analytical Chem	4
CHEM 4367	Advanced Inorganic Chemistry	3
CHEM 4380	Forensic Chemistry	3

## CJ Minor (required)

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

## Electives

Advanced electives <sup>4</sup>	7
<b>Total Hours</b>	<b>126</b>

- <sup>1</sup> MATH 1420 satisfies the Component Area II requirement and the degree specific requirement.
- <sup>2</sup> CHEM 1411 and CHEM 1412 satisfy the Component Area III requirement and the degree specific requirement.
- <sup>3</sup> CRIJ 2361 satisfies the Component Area VIII requirement and the CJ minor requirement.
- <sup>4</sup> 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**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
CHEM 1411 <sup>1</sup>	4 CHEM 1412 <sup>1</sup>	4
MATH 1420 <sup>2</sup>	4 MATH 1430	4
ENGL 1301 <sup>3</sup>	3 ENGL 1302 <sup>3</sup>	3
BIOL 1411	4 BIOL 1413	4
	15	15

**Second Year**

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

**Third Year**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
CHEM 3438	4 BIOL 3450	4
CHEM 4448	4 Elective (Advanced) <sup>6</sup>	4
POLS 2305 <sup>5</sup>	3 POLS 2306 <sup>5</sup>	3
CRIJ 2362	3 CRIJ 2364	3
Component Area IV ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareiv">catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareiv</a> )	3 CRIJ 3378	3
	17	17

**Fourth Year**

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

Total Hours: 126

- <sup>1</sup> Satisfies Component Area III
- <sup>2</sup> Satisfies Component Area II
- <sup>3</sup> Satisfies Component Area I
- <sup>4</sup> Satisfies Component Area VIII

- 5 Satisfies Component Area VII
- 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.