

CHEMISTRY | BACHELOR OF SCIENCE: CRIMINALISTICS (FORENSIC CHEMISTRY)

The Bachelor of Science: Criminalistics program is an interdisciplinary degree housed in the Criminal Justice program (<https://catalog.fhsu.edu/arts-humanities-social-sciences/criminal-justice-leadership-sociology/>), with concentration options available in Chemistry, Biology, or Geosciences.

Program Summary

Code	Title	Hours
General Education ²		34
Criminalistics Core		
Required Courses		34
Directed Choices		13
Forensic Chemistry Concentration		26
Required Courses		
Open Electives ¹		13
Total Hours		120

¹ Open electives are the credit hours required to reach a minimum of 120 total hours and 45 upper-level hours. The number listed assumes all courses are completed at FHSU as listed. This number may vary if students transfer courses, or have individual substitutions allowed.

Students should speak with their advisor if either situation applies to determine if the number will vary, and to ensure they enroll in a minimum of 45 upper-level hours.

Students entering within 1 year of high school graduation will take UNIV 101 Freshman Seminar and may apply that hour in the open elective category.

² In order to complete the degree program efficiently, students who have not already fulfilled their General Education - Natural & Physical Sciences requirement may wish to take CHEM 120/CHEM 122L, as it is also a major requirement.

Program Requirements

General Education

All undergraduate degrees require completion of the Kansas Systemwide General Education (<https://catalog.fhsu.edu/general-education/>).

Courses identified with ^{GE} on this page may satisfy a general education requirement in addition to the identified degree requirement. Students who apply a degree requirement to satisfy a general education requirement will typically add an equal number of hours to the the university elective category. This flexibility may allow you to complete a minor or certificate within the 120 hour degree. Transfer students and students majoring in programs with approved exceptions (<https://www.fhsu.edu/general-education/documents/fhsu-gen-ed-transfer-exceptions-explainer1.pdf>) are especially encouraged to select these courses in completing General Education requirements to maximize the likelihood of completing the degree with 120 credit hours.

Code	Title	Hours
General Education		34-35

Criminalistics Core

Code	Title	Hours
Required Courses		
CHEM 120 & 120L	University Chemistry I and University Chemistry Laboratory I ^{GE}	5
CHEM 122 & 122L	University Chemistry II and University Chemistry Laboratory II	5
CHEM 382	Introduction to Forensic Science	3
CRJ 200	Criminology	3
CRJ 210	Introduction to Criminalistics ^{DC}	3
CRJ 245	Ethics in Criminal Justice	3
CRJ 307	Administration of Justice Systems	3
CRJ 331	Criminal Law and Procedure	3
CRJ 355	Criminal Investigation	3
CRJ 395	Crime Analysis	3
Total Hours		34

^{DC}Course is under development. Discuss your degree map with an advisor to determine if a substitution is needed.

Directed Choice

Code	Title	Hours
CHEM 304 & 304L	Essentials of Organic Chemistry and Essentials of Organic Chemistry Laboratory	5
or CHEM 340 & 340L	Organic Chemistry and Organic Chemistry Laboratory I	
CHEM 360 & 360L	Essentials of Biochemistry and Essentials of Biochemistry Laboratory	5
or CHEM 662 & 662L	Biochemistry I and Biochemistry Laboratory I	
CRJ 499	Capstone Seminar: Critical Issues in Criminal Justice	3
or CRJ 600	Internship in Criminal Justice	
Total Hours		13

Forensic Chemistry Concentration

Code	Title	Hours
Required Courses		
CHEM 342 & 342L	Organic Chemistry II and Organic Chemistry Laboratory II	5
CHEM 350 & 350L	Chemical Analysis and Chemical Analysis Laboratory	5
CHEM 656 & 656L	Instrumental Analysis and Advanced Instrumental and Physical Laboratory	5
CRJ 350	Drugs and Society	3
CRJ 390	Sex Crimes	3
Directed Choices		
Select on of the following		5

CHEM 352 & 352L	Environmental Chemistry and Environmental Chemistry Laboratory	
CHEM 666 & CHEM 634L	Inorganic Chemistry and Advanced Physical and Inorganic Laboratory	
CHEM 664 & 664L	Biochemistry II and Biochemistry Laboratory II	
CHEM 430 & 430L	Survey of Physical Chemistry and Survey of Physical Chemistry Laboratory	
Total Hours		26

Degree Requirements

Code	Title	Hours
All bachelor degrees require:		
GPA of 2.0 on FHSU courses & 2.0 on all coursework (Higher program requirements prevail over the 2.0 when set)		
A minimum of 30 hours earned from FHSU with a grade of D, C, B, or A		
Successful completion of an upper division Writing and Information Literacy course (Most majors contain a course designated)		
A minimum of 45 hours of recognized upper division credit		
A minimum of 120 hours of recognized college credit		

Degree Maps

Academic Degree Maps are term-by-term sample course plans that specify milestones, courses, and special requirements that are necessary for facilitating on-time completion. Degree Maps are *examples* and are not prescriptive. Individualized choices such as concentration options, transfer credits, optional minors, advisory programs (certificates), etc. can alter the recommended coursework. Course offerings are subject to change. Students should consult with their academic advisors for additional guidance on course planning.

To determine courses to take in the directed choices (often listed as Program Elective Course) and directed elective course blocks see the overview tab for courses. To locate approved courses in General Education areas (Undergraduate Programs) see the general education section (<https://catalog.fhsu.edu/general-education/>) of the catalog.

The undergraduate course maps typically advise the most efficient route for students to complete the general education requirements. Courses that are required in the major may be listed as fulfilling relevant general education requirements. This will result in more open elective course hours in some maps than is listed on the degree overview page.