COLLEGE OF SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

# FORENSIC SCIENCE: FORENSIC CHEMISTRY

## Bachelor of Science (BS)

This is a guide based on the 2026-2027 Undergraduate Catalog and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use Degree Works to monitor their individual progress.

## CURRICULUM CHECKLIST

**86-90 Hour Major – No minor required**

***Core Courses: (59-61 hours)***

___ BY163/063 Ecology & Evolution (4)
___ BY173/073 Cell & Organismal Biology (4)
___ BY283/083 Genetics (4)
___ CH185 General Chemistry I (3)
___ CH184 General Chemistry I Lab (1)
___ CH186 General Chemistry II (3)
___ CH187 General Chemistry II Lab (1)
___ CH341 Found of Organic Chem (4)
___ CH342 Organic Chemistry Lab I (1)
___ CH343 Adv Organic Chem (3)
___ CH344 Organic Chem Lab II (2)
___ CH531 Found of Biochemistry (3)
___ FS101 Introduction to Forensic Science (3)
___ FS351 Criminalistics (3)
___ FS405 Forensic Expert Witness Testimony (2)
___ MA139 Applied Calculus (3)
OR ___ MA140 Analytic Geometry & Calculus I (5)
___ MA223 Elementary Probability & Statistics (3)

**Physics Option – choose 1 group**

___ PH120 Introductory Physics I (5)
AND ___ PH121 Introductory Physics II (5)
OR
___ PH230 General Physics I (5)
AND ___ PH231 General Physics II (5)

**Experiential Learning – Choose 2 hours**

___ CH391 Undergraduate Research (1-3)
___ BY582 Internship in Biology (1-3)
___ BY591 Biological Research (1-6)

**Forensic Chemistry Option: (22 hours)**

___ CH195 Chemistry Seminar I (1)
___ CH271/071 Analytical Chemistry (5)
___ CH306 Inorganic Chemistry (3)
___ CH420/020 Forensic Chemistry (4)
___ CH575/075 Chemical Instrumentation (4)
___ FS550 Forensic Microscopy (2)
___ FS553 Introductory Analysis of Pattern Evidence (3)

**Option Electives – Choose 5-7 hours**

___ BY440 Toxicology (3)
___ CH295 Chemistry Seminar II (2)
___ CH495 Chemistry Seminar III (1)
___ CH311 Foundations of Physical Chemistry (4)
___ CH312 Advanced Physical Chemistry (3)
___ CH533 Biochemistry Lab (2)
___ FS552 Forensic Serology & DNA Analysis (2)

**General Electives: 2-6 hours**

**General Education Requirements** – some requirements may be fulfilled by coursework in major program

- Social and Behavioral Sciences – 6 hours
- Constitution Requirement – 3 hours
- Written Communication – 6 hours
- Oral Communication – 3 hours
- Natural Sciences – 7 hours (from two disciplines, one to include a lab)
- Mathematics – 3 hours
- Humanities & Fine Arts – 9 hours (from at least two disciplines)
- Additional requirements – 5 hours (to include UI100 for native students)
- Civics examination

## SAMPLE FOUR-YEAR PLAN

| | Fall Semester | | Spring Semester | |
|---|---|---|---|---|
| | *Course #* | *Hrs* | *Course #* | *Hrs* |
| FIRST YEAR | UI100 | 1 | BY173/073 | 4 |
| | FS101 | 3 | ***CH186*** | 3 |
| | ***CH184/185*** | 4 | CH187 | 1 |
| | MA139 | 3 | MA223 | 3 |
| | BY163/063 | 4 | General Education | 3 |
| | | | | |
| | **Total** | **15** | **Total** | **14** |
| | Milestone: achieve a target cumulative GPA of 3.0 | | | |
| SECOND YEAR | BY283/083 | 4 | General Education | 3 |
| | CH271/071 | 5 | General Education | 3 |
| | *CH341* | 4 | CH343 | 3 |
| | CH342 | 1 | CH344 | 2 |
| | | | Elective | 3 |
| | **Total** | **15** | **Total** | **14** |
| | Milestone: achieve a target cumulative GPA of 3.0 | | | |
| THIRD YEAR | CH420/020 | 4 | FS405 | 2 |
| | FS351 | 3 | Physics II | 5 |
| | CH531 | 3 | General Education | 3 |
| | Physics I | 5 | General Education | 3 |
| | | | General Education | 3 |
| | **Total** | **15** | **Total** | **16** |
| | Milestone: achieve a target cumulative GPA of 3.0 | | | |
| FOURTH YEAR | CH306 | 3 | FS553 | 3 |
| | FS550 | 2 | CH575/075 | 4 |
| | Option Elective | 2 | Option Elective | 3 |
| | Experiential Learning | 2 | General Education | 3 |
| | General Education | 3 | General Education | 3 |
| | Elective | 3 | | |
| | **Total** | **15** | **Total** | **16** |
| | Milestone: achieve a target cumulative GPA of 3.0 | | | |

***A "Milestone" signifies a significant stage for a student in the completion of a degree.***

**Degree requirements for all students:** a minimum of 120 credit hours, completion of the General Education program, and completion of 39 senior division hours (300-599). Refer to the Undergraduate Catalog or Degree Works for additional graduation requirements for your program.

*A minimum 2.0 GPA in the major and overall are required to graduate with a BS degree.*

*Revised 9/22/2026*

DEGREE MAP 2026-2027