



Department of Chemistry and Forensic Science
College of Science, Technology, Engineering, and

Math (2025-26)

Suggested Curriculum Guide for B.S. Forensic Science, Forensic Chemistry Concentration

Freshman (1st Semester) 17 hrs

GSD 101- Foundations in Learning
CHE 111- General Chemistry I
CHE 111L- General Chemistry I
Lab
FOR 301- Intro. to Forensic Science
MAT 234- Calculus I
Gen. Ed. 1A (*ENG 101 or 105*)

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Freshman (2nd Semester) 15 hrs

BIO 111- Cell and Molecular Biology
BIO 111L- Cell and Molecular Biology Lab
CHE 112- General Chemistry II
CHE 112L- General Chemistry II Lab
^GSTA 215 *or* 270 (*fulfills Gen. Ed. 2*)- Intro.to Statistical Reasoning *or*
Applied Statistics
Gen. Ed. 1B (*ENG 102*)
Free Electives

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Sophomore (1st Semester) 17 hrs

CHE 361- Organic Chemistry I
CHE 361L- Organic Chemistry I Lab
FOR 401- Forensic Professional Practice
^G PHY 131 *or* 201 (*fulfills Gen. Ed. 4*)- College Physics I *or* University
Physics I
Gen. Ed. 5B (*Soc. & Behav. Sci.*) Course 1
BIO 112- Ecology and Evolution
BIO 112L- Ecology and Evolution Lab

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Sophomore (2nd Semester) 14 hrs

CHE 362- Organic Chemistry II
CHE 362L- Organic Chemistry II Lab
CHE 325- Analytical Chemistry CHE
325L- Analytical Chemistry Lab
PHY 132 *or* 202- College Physics II *or* University Physics II

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Junior (1st Semester) 12 hrs

FOR 411 (*fall only*)- Instrumental Analysis
FOR 411L (*fall only*)- Forensic Instrumental Lab
FOR 451- Forensic Microscope Analysis
FOR 451L- Forensic Microscopy Lab
†CHE/FOR Restricted Elective (*FOR 310 recommended*)-
Preparation for Internship
Gen. Ed. 5B Course 2
Free Elective

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Junior (2nd Semester) 14 hrs

FOR 431 (*spring only*)- DNA Profiling
FOR 412 (*spring only*)- Forensic Trace Evidence
FOR 412L (*spring only*)- Forensic Trace Evidence
Lab FOR 442 (*spring only*) Forensic Toxicology &
Drugs FOR 442L (*spring only*)- Drugs & Toxicology
Lab Gen. Ed. 3A (*Arts*)

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Summer

♣ **NOTE:** While not required, it is strongly recommended that students complete **THREE (3) HOURS** of FOR 349: Applied Learning in Forensic Science in a Forensic Laboratory. Students interested in the internship must complete FOR 310 training for Forensic Internship before taking FOR 349. (3)

Senior (1st Semester) 15 hrs

CHE 430- Biochemistry of Macromolecules
FOR 465 (*fall only*)- Expert Witness Testimony
FOR 499 (*fall only*)- Forensic Science
Capstone Gen. Ed. 1C (*Oral Comm.*)
Gen. Ed. 3B Course 1

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Senior (2nd Semester) 16 hrs

CHE 420 (*spring only*)- Mass Spectrometry
CHE 471- Principles of Physical Chemistry I
CHE 471L- Principles of Physical Chemistry I
Lab
†CHE/FOR Restricted Elective
Gen. Ed. 3B (*Humanities*) Course 2
Gen. Ed. 5A (*History*)

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^G Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.

UNIVERSITY GRADUATION REQUIREMENTS

General Education
Foundations in Learning (GSD 101; waived for transfers with 30+ hrs)

39 hours

36 hours
3 hours

MAJOR REQUIREMENTS

Core Courses

CHE 111, CHE 111L, CHE 112, CHE 112L, CHE 361, CHE 361L, CHE 362, CHE 362L, CHE 430, FOR 301, FOR 401, FOR 431, FOR 451, FOR 451L, FOR 465, FOR 499, MAT 234, PHY 132 *or* PHY 202, BIO 111, BIO 111L

48 hours

Concentration Requirements

CHE 325, CHE 325L, CHE 420, CHE 471, CHE 471L, CHE 425 and CHE 425L *or* FOR 411 and FOR 411L, FOR 412, FOR 412L, FOR 442, FOR 442L

28 hours

†PLUS, FOUR (4) HOURS selected from the following (restricted elective):

CHE 349, CHE 349 A-N, CHE 401, CHE 401L, CHE 432, CHE 450, FOR 310, FOR 330, FOR 349, FOR 431L, FOR 460, FOR 490, FSE 350, FSE 380, PLS 316

Supporting Course Requirements

^G BIO 112, BIO 112L, MAT 234, ^G PHY 131 *or* ^G PHY 201, ^GSTA 215 *or* ^GSTA 270

..4-5 hours

Free Electives

..1-2 hours

Total Curriculum Requirements

120 hours