



Department of Chemistry and Forensic Science

College of Science, Technology, Engineering, and Math (2025-26)

Suggested Curriculum Guide for B.S. in Forensic Science, Forensic Biology Concentration

Freshman (1st Semester) 17 hrs

GSD 101- Foundations in Learning	3
CHE 111- General Chemistry I	3
CHE 111L- General Chemistry I Lab	1
FOR 301- Intro. to Forensic Science	3
MAT 234- Calculus I	4
Gen. Ed. 1A (<i>ENG 101 or 105</i>)	3

Sophomore (1st Semester) 17 hrs

CHE 361- Organic Chemistry I	3
CHE 361L- Organic Chemistry I Lab	1
FOR 401- Forensic Professional Practice	1
⁶ PHY 131 <u>or</u> 201 (<i>fulfills Gen. Ed. 2B</i>)	5
Gen. Ed. 3B (<i>Soc. & Behav. Sci.</i>)	3
BIO 112- Ecology and Evolution	3
BIO 112L- Ecology and Evolution Lab	1

Junior (1st Semester) 12 hrs

FOR 411 (<i>fall only</i>)- Instrumental Analysis	3
FOR 411L (<i>fall only</i>)- Forensic Instrumental Lab	1
FOR 451- Forensic Microscope Analysis	2
FOR 451L- Forensic Microscopy Lab	1
†CHE/FOR Restricted Elective (<i>FOR 310 recommended</i>)	1
Gen. Ed. 4A (History)	3
Free Elective	1

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	3
465 (<i>fall only</i>)- Expert Witness Testimony FOR	3
499 (<i>fall only</i>)- Forensic Sci. Capstone Gen. Ed.	3
1C (Oral Comm.)	3
Gen. Ed. 4B	3

Freshman (2nd Semester) 15 hrs

BIO 111- Cell and Molecular Biology	3
BIO 111L- Cell and Molecular Biology Lab	1
CHE 112- General Chemistry II	3
CHE 112L- General Chemistry II Lab	1
⁶ STA 215 <u>or</u> 270 (<i>fulfills Gen. Ed. 2A</i>)- Intro.to Statistical Reasoning <u>or</u>	3
Applied Statistics	0-1
Gen. Ed. 1B (<i>ENG 102</i>)	
Free Electives	

Sophomore (2nd Semester) 14 hrs

CHE 362- Organic Chemistry II	3
CHE 362L- Organic Chemistry II Lab	1
CHE 325- Analytical Chemistry CHE	3
325L- Analytical Chemistry Lab	2
PHY 132 <u>or</u> 202- College Physics II <u>or</u> University Physics II	5

Junior (2nd Semester) 14 hrs

FOR 431 (<i>spring only</i>)- DNA Profiling	3
FOR 412 (<i>spring only</i>)- Forensic Trace Evidence FOR	3
I12L (<i>spring only</i>)- Forensic Trace Evidence Lab FOR	1
I42 (<i>spring only</i>) Forensic Toxicology & Drugs FOR	3
I42L (<i>spring only</i>)- Drugs & Toxicology	3
Gen. Ed. 3A (Arts)	3

Senior (2nd Semester) 16 hrs

CHE 420 (<i>spring only</i>)- Mass Spectrometry	
CHE 471- Principles of Physical Chem. I	
CHE 471L- Principles of Physical Chem. I Lab	
†Restricted Elective	
Gen. Ed. (Flex)	
Free Elective	

UNIVERSITY GRADUATION REQUIREMENTS

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

33 hours
30 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

BIO 315, BIO 320, BIO 331, BIO 531, CHE 432, FOR 330, FOR 431L, FOR 432

28 hours

†PLUS, NINE (9) HOURS selected from the following (restricted elective):

ANT 306, ANT 380, ANT 385, BIO 208, BIO 208L, BIO 308, BIO 308L, BIO 348, BIO 527, BIO 528, BIO 533, BIO 535, BIO 546, CHE 325 and CHE 325L, CHE 425 and CHE 425L OR FOR 411 and FOR 411L, CHE 431, CHE 401, CHE 401L, CHE 420, FOR 310, FOR 349, FOR 412 and FOR 412L, FOR 442, FOR 442L, FOR 460, FOR 490, PLS 316

Supporting Course Requirements

⁶ BIO 112, BIO 112L, ⁶ PHY 131 or ⁶ PHY 201, ⁶STA 215 or ⁶STA 270

6-7 hours

Free Electives

4-5 hours

Total Curriculum Requirements

120 hours