

**ACADEMIC ROADMAP**  
BS Degree in Forensic Chemistry  
Fall 2022

**Freshman Year (30 credits)**

FIRST SEMESTER

Course Title	Catalog Number	Prerequisite(s)
College Writing I (3)	CWP 101	Successful completion of CWP 099 or SAT score over 400 or ACT composite score of 18 (or higher)
Fund of Chem I and Lab (4)*	CHE 111 and CHE 113	CHE 110 (C or better) or MAT 114 or a higher-level math (C or better) or SAT math of 480 (or better) or ACT composite score of 18 (or higher)
Calculus I and Lab (5)*	MAT 161 and MAT 163	MAT 124 with a minimum grade of C or equivalent.**
Intellectual Foundations (IF) Course (not NS or MQ) (3)		

SECOND SEMESTER

Course Title	Catalog Number	Prerequisite(s)
College Writing II (3)	CWP 102	CWP 101 or its equivalent
Fund of Chem II and Lab (4)*	CHE 112 and CHE 114	CHE 111, CHE 113
Calculus II and Lab (5)	MAT 162 and MAT 164	MAT 161/163 (C or better)
Sci. Crim. Evidence Analysis (3)	FOR 122	

**Notes and recommendations:**

\*A grade of C or better is required.

\*\*A high school pre-calculus course is considered equivalent

Attend at least one faculty office hour; visit Academic Commons (Math & Writing Centers, tutoring); view your degree audit sheet in Degree Works

**Sophomore Year (60 credits)**

THIRD SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Organic Chemistry I (3)	CHE 201	CHE 112
Organic Chemistry I Lab (1)	CHE 203	CHE 112 and CHE 114; CHE 201 (or concurrent registration)
University Physics I (5)	PHY 111	MAT 161 (or concurrent registration)
Analytical Chemistry (4) <sup>1</sup>	CHE 301	CHE 112, CHE 114
Intellectual Foundations (IF) Course (3) <sup>2</sup>		

## FOURTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Organic Chemistry II (3)	CHE 202	CHE 201
Organic Chemistry II Lab (1)	CHE 204	CHE 203, CHE 202 (or concurrent registration)
University Physics II (5)	PHY 112	PHY 111 or equivalent
Intro to Prob & Statistics (3)	MAT 311	Three years of Regents high school math
Intellectual Foundations (IF) Course (3) <sup>2</sup>		

**Notes and recommendations:**

<sup>1</sup>These courses are usually offered only in the semester indicated.

<sup>2</sup>ANT101 meets NW-IF requirement and is required for the Forensic Anthropology Minor

Form a study group; consider enrolling in a minor or certificate program

**Junior Year (90 credits)**

## FIFTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Intro to Cell Biology (4)	BIO 211	BIO 111 or CHE 112
Chemistry & Criminalistics (4) <sup>1</sup>	FOR 312	FOR 122, MAT 311 and CHE 201
Intellectual Foundations (IF) Courses (3)		
Intellectual Foundations (IF) Courses (3) <sup>3</sup>		

## SIXTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Chemical Microscopy (3) <sup>1,2</sup>	FOR 416	FOR 312; PHY 112
OR	----	----
Analytical Toxicology (3) <sup>1,2</sup>	CHE 406	CHE 202; CHE 301
Prin. Of Physical Chem (3) <sup>1</sup>	CHE 331	CHE 202; MAT 162
Instrumental Analysis (3) <sup>1</sup>	CHE 401	CHE 301; CHE 331 or CHE 306 recommended
Prof. Practices in Forensic Science (3) <sup>1</sup>	FOR 410	FOR312
OR	----	----
Advanced Forensic Elective (3-4) <sup>4</sup>	Varies	Varies
Intellectual Foundations (IF) Course (3)		

**Notes and recommendations:**

<sup>1</sup>These courses are usually offered only in the semester indicated.

<sup>2</sup>One of these two courses is offered each spring semester.

<sup>3</sup>ANT 324 (required for the Forensic Anthropology minor) can be taken here (and delay the IF)

<sup>4</sup>Consider BIO 306 (required to become a DNA Analyst), or, ANT 325 (for Forensic Anthropology minor), or CHE 472 (preparation for a career in toxicology)

Visit the Career Development Center; talk to your faculty advisor about graduate school options

### Senior Year (120 credits)

#### SEVENTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Biochemistry I (3) <sup>1</sup>	CHE 470	CHE 202; BIO 211 recommended
Biochemical Techniques (2) <sup>1</sup>	CHE 471	CHE 204 and CHE 301
Instrumental Analysis Lab (2) <sup>1</sup>	CHE 404	CHE 403
Genetics (4) <sup>1</sup>	BIO 303 or BIO 350	BIO 111 (C or better), BIO 211, BIO 213, CHE 111 and CHE 112/114
Intellectual Foundations (IF) Course (3)		

#### EIGHTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Forensic Chem Lab (3) <sup>1</sup>	FOR 414	FOR 312, CHE 404; BIO 303 or BIO 350 (or concurrently)
Internship in Criminalistics (3) OR Research in Forensic Science (3)	FOR 412 ---- FOR 495	FOR 312, CHE 404, permission of instructor and senior status
Professional Practices in Forensic Science (3) <sup>1</sup> OR Advanced Forensic Elective (3-4) <sup>2</sup>	FOR	FOR 312
Intellectual Foundations (IF) Course (3)		

### Notes and recommendations:

<sup>1</sup>These courses are usually offered only in the semester indicated.

<sup>2</sup>Consider BIO 306 (required to become a DNA Analyst), or, ANT 325 (for Forensic Anthropology minor), or CHE 472 (preparation for a career in toxicology)

Apply for graduation; apply to graduate school, if applicable; visit the Career Development Center to have your resume reviewed