

9/6/2024

ACADEMIC ROADMAP
BS Degree in Forensic Chemistry
Fall 2024

Freshman Year (28 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 (3)*	CHE 111	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); CHE113(corequisite)
Fund of Chem I Lab (1)*	CHE 113	CHE 111 (corequisite)
Calculus I (4)*	MAT 161	MAT 124 with a minimum grade of C or equivalent.**
Sci. Crim. Evidence Analysis (3)	FOR 122	

SECOND SEMESTER

Course Title	Catalog Number	Prerequisite(s)
College Writing II (3)	CWP 102	CWP 101 or its equivalent
Fund of Chem II (3)*	CHE 112	CHE 111; CHE114(corequisite)
Fund of Chem II Lab (1)*	CHE 114	CHE111; CHE113; CHE112(corequisite)
Calculus II (4)	MAT 162	MAT 161(C or better)
GE 23 Course (3)	See course catalog	

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 (59 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; CHE 114; CHE 201 (or concurrent registration)
University Physics I (5) ¹	PHY 111	MAT 161 (or concurrent registration)
Analytical Chemistry (4) ¹	CHE 301	CHE 112; CHE 114
GE23 Course (3)	See course catalog	

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FOURTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Organic Chemistry II (3) ¹	CHE 202	CHE 201
Organic Chemistry II Lab (1)	CHE 204	CHE 203; CHE 202 (or concurrent registration)
University Physics II (5) ¹	PHY 112	PHY 111 or equivalent
Intro to Prob & Statistics (3)*	MAT 311	Three years of Regents high school math
GE23 Course (3)	See course catalog	

Notes and recommendations:

¹These courses are usually offered only in the semester indicated.

*MAT 311 meets GE23 requirements.

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) ¹	FOR 312	FOR 122; MAT 311; CHE 201
GE23 Course (3)	See course catalog	
All-College Electives (3)	See course catalog	

SIXTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Chemical Microscopy (3) ² OR Analytical Toxicology (3) ²	FOR 416 CHE 406	FOR 312; PHY 112 CHE 202; CHE 301
Prin. of Physical Chem (3) ¹	CHE 331	CHE 202; MAT 162; PHY112
Instrumental Analysis (3) ¹	CHE 403	CHE 301; CHE 331 recommended
Prof. Practices in Forensic Science (3) ¹ OR Advanced Forensic Elective (3- 4) ³	FOR 410 See the list below	FOR 312
All-College Electives (3)	See course catalog	

Notes and recommendations:

¹These courses are usually offered only in the semester indicated.

² Offered on a 2-year rotation in the semester indicated.

³ ANT324, ANT325, BIO305, BIO308, BIO309, BIO314, BIO316, BIO450, CHE325, CHE327, CHE360, CHE406, CHE427, CHE472, FOR416, GES360, PSY375

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

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Senior Year (120 credits)

SEVENTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Biochemistry I (3) ¹	CHE 470	CHE 202; BIO 211 recommended
Biochemical Techniques (2) ¹	CHE 471	CHE 204; CHE 301; CHE470 (or concurrently)
Instrumental Analysis Lab (2) ¹	CHE 404	CHE 403
Genetics (4) ¹	BIO 303 or BIO 350	BIO 111 (C or better), BIO 211, CHE 111/113 and CHE 112/114
Upper College Electives (3)	See course catalog	

EIGHTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Forensic Chem Lab (3) ¹	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 475	FOR 312, CHE 403, permission of instructor and senior status
Professional Practices in Forensic Science (3) ¹ OR Advanced Forensic Elective (3-4) ²	FOR 410 See the list below	FOR 312 varies
All-College Electives (3)	See course catalog	
All-College Electives (3)	See course catalog	

Notes and recommendations:

¹These courses are usually offered only in the semester indicated.

² ANT324, ANT325, BIO305, BIO308, BIO309, BIO314, BIO316, BIO450, CHE325, CHE327, CHE360, CHE406, CHE427, CHE472, FOR416, GES360, PSY375

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