

B.S. Chemistry – Forensics Option Sample Curriculum

2020-2021

First Year – Fall Semester			First Year – Spring Semester		
CHEM 111, 111L	Principles of Chemistry I with Lab Sufficient math scores or min 'C' in CHEM 101, MATH 143, 160, or 170	4	CHEM 112, 112L	Principles of Chemistry II with Lab CHEM 111, 111L or Permission	5
MATH 170	Analytic Geometry and Calculus I MATH 143 with 'C' or better and 144, or sufficient exam scores	4	MATH 175	Analytic Geometry and Calculus II MATH 170 with a grade of 'C' or better	4
ENGL 102	College Writing and Rhetoric ENGL 101 or sufficient test scores	3	BIOL 115, 115L	Cells and the Evolution of Life (with lab) CHEM 101, 101L, or 111, 111L	4
*COMM 101	Fundamentals of Oral Communication	2		Humanities/Social Science Course	3
	Humanities/Social Science Course	3			
	Total Credits	16		Total Credits	16
Second Year – Fall Semester			Second Year – Spring Semester		
CHEM 253	Quantitative Analysis (Fall only) CHEM 112, 112L	3	CHEM 372	Organic Chemistry II (Spring only) CHEM 277	3
CHEM 254	Quantitative Analysis Lab (Fall only) CHEM 253	2	CHEM 374	Organic Chemistry II Lab (Spring only) CHEM 278; CHEM 372	1
CHEM 277	Organic Chemistry I CHEM 112, 112L	3	PHYS 211, 211L	Engineering Physics I (with lab) MATH 170	4
CHEM 278	Organic Chemistry I Lab CHEM 277	1	STAT 251	Statistical Methods MATH 108, 143, 160, 170, or sufficient ACT/SAT score	3
MATH 275	Analytic Geometry and Calculus III MATH 175	3		Humanities/Social Science Course	3
	Humanities/Social Science Course (SOC 130 recommended)	3			
	Total Credits	15		Total Credits	14
Third Year – Fall Semester			Third Year – Spring Semester		
CHEM 305	Physical Chemistry I (Fall only) CHEM 112, 112L and Math 275, PHYS 212 or PHYS 213	3	CHEM 306	Physical Chemistry II (Spring only) CHEM 305	3
CHEM 307	Physical Chemistry I Lab (Fall only) CHEM 305	1	CHEM 308	Physical Chemistry II Lab (Spring only) CHEM 306	1
PHYS 212, 212L	Engineering Physics II (with lab) PHYS 211, 211L; Math 175	4	*GENE 314	General Genetics (Spring only) BIOL 115, or 154 or permission	3
BIOL 250	General Microbiology (Fall only) BIOL 115, 115L and either CHEM 101, 101L or CHEM 111, 111L	3	*CS 112	Computational Thinking and Problem Solving MATH 108 with 'C' or ACT/SAT score to qualify for MATH 143	3
BIOL 255	General Microbiology Lab BIOL 250	2	ELECTIVE	UPDV elective as needed (CHEM 491 recommended)	1-3
				American Diversity/International Course	3
	Total Credits	16		Total Credits	14-16
Fourth Year – Fall Semester			Fourth Year – Spring Semester		
CHEM 409	Proseminar CHEM 372 and Junior Standing	1	CHEM 454	Instrumental Analysis (Spring only) CHEM 253, 254, and 305; CHEM 306	4
BIOL 380	Biochemistry (Fall only) CHEM 112, 122L and CHEM 277	4	GEOL 426	Principles of Forensic Mineralogy and Geology GEOL 101,101L, or 111,111L; and CHEM 111, 111L; and MATH 143 with 'C' or better; or permission	3
BIOL 382	Biochemistry Lab (Fall only) BIOL 380 or equivalent	2	ELECTIVES	UPDV electives as needed	6
**ANTH 451	Forensic Anthropology	3		American Diversity/International Course	3
ELECTIVE	UPDV elective as needed	3			
	Total Credits	13		Total Credits	16

*Other options available

**Course not required but highly recommended

Requirements subject to change. See UI Catalog for complete degree requirements and additional information.

Courses in gold are prerequisites. Courses in italics are co-requisites. UPDV denotes "upper division"