## B.S. Chemistry – Forensics Option Sample Curriculum 2020-2021

### First Year – Fall Semester

- **CHEM 111, 111L**  
  Principles of Chemistry I with Lab  
  Sufficient math scores or min ‘C’ in CHEM 101, MATH 143, 160, or 170

### First Year – Spring Semester

- **CHEM 112, 112L**  
  Principles of Chemistry II with Lab  
  CHEM 111, 111L or Permission

### MATH 170

Analytic Geometry and Calculus I  
MATH 143 with ‘C’ or better and 144, or sufficient exam scores

### ENGL 102

College Writing and Rhetoric  
ENGL 101 or sufficient test scores

- **COMM 101**  
  Fundamentals of Oral Communication

- **Other options available**

- **Course not required but highly recommended**

### Total Credits
16

### Second Year – Fall Semester

- **CHEM 253**  
  Quantitative Analysis (Fall only)  
  CHEM 112, 112L

- **CHEM 254**  
  Quantitative Analysis Lab (Fall only)  
  CHEM 253

- **CHEM 277**  
  Organic Chemistry I  
  CHEM 112, 112L

- **CHEM 278**  
  Organic Chemistry I Lab  
  CHEM 277

- **MATH 275**  
  Analytic Geometry and Calculus III  
  MATH 175

- **Humanities/Social Science Course** (SOC 130 recommended)

### Second Year – Spring Semester

- **CHEM 372**  
  Organic Chemistry II (Spring only)  
  CHEM 277

- **CHEM 374**  
  Organic Chemistry II Lab (Spring only)  
  CHEM 278; CHEM 372

- **PHYS 211, 211L**  
  Engineering Physics I (with lab)  
  MATH 170

- **STAT 251**  
  Statistical Methods  
  MATH 108, 143, 160, 170, or sufficient ACT/SAT score

- **Humanities/Social Science Course**

### Total Credits
15

### Third Year – Fall Semester

- **CHEM 305**  
  Physical Chemistry I (Fall only)  
  CHEM 112, 112L and Math 275, PHYS 212 or PHYS 213

- **CHEM 307**  
  Physical Chemistry I Lab (Fall only)  
  CHEM 305

- **PHYS 212, 212L**  
  Engineering Physics II (with lab)  
  PHYS 211, 211L; Math 175

- **BIOE 250**  
  General Microbiology (Fall only)  
  BIOE 115, 115L and either CHEM 101, 101L or CHEM 111, 111L

- **BIOE 255**  
  General Microbiology Lab  
  BIOE 250

### Third Year – Spring Semester

- **CHEM 306**  
  Physical Chemistry II (Spring only)  
  CHEM 205

- **CHEM 308**  
  Physical Chemistry II Lab (Spring only)  
  CHEM 306

- ***GENE 314**  
  General Genetics (Spring only)  
  BIOL 115, or 154 or permission

- **CS 112**  
  Computational Thinking and Problem Solving  
  MATH 108 with ‘C’ or ACT/SAT score to qualify for MATH 143

### American Diversity/International Course

### Total Credits
16

### Fourth Year – Fall Semester

- **CHEM 409**  
  Proseminar  
  CHEM 372 and Junior Standing

- **BIOL 380**  
  Biochemistry (Fall only)  
  CHEM 112, 122L and CHEM 277

- **BIOL 382**  
  Biochemistry Lab (Fall only)  
  BIOL 380 or equivalent

- ****ANTH 451**  
  Forensic Anthropology

### Fourth Year – Spring Semester

- **CHEM 454**  
  Instrumental Analysis (Spring only)  
  CHEM 253, 254, and 305; CHEM 306

- **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

- **ELECTIVE**  
  UPDV electives as needed (CHEM 491 recommended)

- ****ANTH 451**  
  Forensic Anthropology

### American Diversity/International Course

### Total Credits
16

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*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”

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