

**ACADEMIC ROADMAP  
BS IN FORENSIC CHEMISTRY**

**Freshman Year**

| <b>FIRST SEMESTER</b>                |                |   |
|--------------------------------------|----------------|---|
| Course Title                         | Catalog Number | Prerequisite(s)   |
| FUND OF CHEM I (4)*                  | CHE 111/113    | 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 (5)*                      | MAT 161/163    | MAT 124 with a minimum grade of C   |
| College Writing I (3)                | CWP 101        | Successful completion of CWP 099 or SAT score over 400 or ACT score of 17 or higher   |
| Intellectual Foundations (IF) course |                |   |

| <b>SECOND SEMESTER</b>           |                |                           |
|----------------------------------|----------------|---------------------------|
| Course Title                     | Catalog Number | Prerequisite(s)           |
| FUND OF CHEM II (4)*             | CHE 112/114    | CHE 111/113               |
| CALCULUS II (5)*                 | MAT 162/164    | MAT 161/163               |
| SCI. CRIM. EVIDENCE ANALYSIS (3) | FOR 122        |                           |
| College Writing II (3)           | CWP 102        | CWP 101 or its equivalent |
|                                  |                |                           |

Notes: \*a grade of "C" or better is required.

**Sophomore Year**

| <b>THIRD SEMESTER</b>          |                |   |
|--------------------------------|----------------|---|
| Course Title                   | Catalog Number | Prerequisite(s)                         |
| ORGANIC CHEMISTRY I (3)        | CHE 201        | CHE 112                                 |
| ORGANIC CHEMISTRY I LAB (1)    | CHE 203        | CHE 112                                 |
| UNIVERSITY PHYSICS I (5)       | PHY 111        | MAT 161                                 |
| INTRO TO PROB & STATISTICS (3) | MAT 311        | Three years of Regents high school math |
| IF course                      |                |   |

| <b>FOURTH SEMESTER</b>       |                |                       |
|------------------------------|----------------|-----------------------|
| Course Title                 | Catalog Number | Prerequisite(s)       |
| ORGANIC CHEMISTRY II (3)     | CHE 202        | CHE 201               |
| ORGANIC CHEMISTRY LAB II (1) | CHE 204        | CHE 203               |
| UNIVERSITY PHYSICS II (5)    | PHY 112        | PHY 111 or equivalent |
| ANALYTICAL CHEMISTRY (4)     | CHE 301        | CHE 112/114           |
| IF course                    |                |                       |

Notes:

**Junior Year**

| <b>FIFTH SEMESTER</b>                       |                  |                              |
|---|------------------|------------------------------|
| 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 |
| IF course                                   |                  |                              |
| Advanced Forensic Elective (3-4)            | Choose from list | varies                       |
|   |                  |                              |
|   |                  |                              |
|   |                  |                              |
|   |                  |                              |

| <b>SIXTH SEMESTER</b>  |                         |   |
|--|-------------------------|---|
| Course Title   | Catalog Number          | Prerequisite(s)                           |
| CHEMICAL MICROSCOPY (3) <sup>2</sup><br>Or<br>ANALYTICAL TOXICOLOGY (3) <sup>2</sup> | FOR 416<br>—<br>CHE 406 | FOR 312; PHY 112<br>—<br>CHE 202; CHE 301 |
| PRIN. OF PHYSICAL CHEM (3) <sup>1</sup>  | CHE 331                 | CHE 202, MAT 126 or MAT 162 or PHY 112    |
| INSTRUMENTAL ANALYSIS (3) <sup>1</sup>   | CHE 403                 | CHE 301                                   |
| PROF. PRACTICES IN FORENSIC SCIENCE (3) <sup>2</sup>                                 | FOR 410                 | FOR 312                                   |
| IF Course  |                         |   |

Notes: 1) these courses are usually offered only in the semester indicated; 2) offered alternate spring semesters;

**Senior Year**

| <b>SEVENTH SEMESTER</b>                 |                       |   |
|---|-----------------------|---|
| <b>Course Title</b>                     | <b>Catalog Number</b> | <b>Prerequisite(s)</b>                    |
| 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)           | CHE 403               | CHE 301; CHE 331 or CHE 306 recommended   |
| GENETICS (4) <sup>1</sup>               | BIO 303 or BIO 350    | BIO 211, BIO 213, CHE 111 and CHE 112/114 |
| IF Course                               |                       |   |

| <b>EIGHTH SEMESTER</b>  |                            |  |
|---|----------------------------|--|
| <b>Course Title</b>   | <b>Catalog Number</b>      | <b>Prerequisite(s)</b>                                       |
| FORENSIC CHEM LAB (3) <sup>1</sup>  | FOR 414                    | FOR 312 and CHE 403; BIO 303 or BIO 350 (or concurrently)    |
| INTERNSHIP IN CRIMINALISTICS (3)<br>Or<br>CAPSTONE RESEARCH IN FORENSIC CHEMISTRY (3) | FOR 412<br>----<br>FOR 475 | FOR 312, CHE 404, permission of instructor and senior status |
| PROFESSIONAL PRACTICES IN FORENSIC SCIENCE (3) <sup>2</sup>                           | FOR                        | FOR 312  |
| IF Course   |                            |  |

Notes: 1) these courses are usually offered only in the semester indicated; 2) Offered alternate spring semesters.