

**HARFORD COMMUNITY COLLEGE - CHEMISTRY A.S. DEGREE (Non-Calculus Based Physics)**  
**TOWSON UNIVERSITY 2 + 2 FORENSIC CHEMISTRY (General Forensic Science Track) B.S. Degree**

| HARFORD COMMUNITY COLLEGE |   |           | TOWSON UNIVERSITY  |       |   |            |
|---------------------------|---|-----------|--------------------|-------|---|------------|
| COURSE #                  | COURSE TITLE                              | CRS.      | TU EQUIVALENCY     | GenEd | COMMENTS  | COURSE ID# |
| ENG 101                   | College Composition                       | 3         | ENGL 102           | IA    |   | 2348       |
| CIS 102                   | Intro. Information Sciences               | 3         | CIS 115            | IB    |   | 11642      |
| MATH 109                  | Precalculus Mathematics                   | 4         | MATH 119           | IC    |   | 4381       |
|                           |   |           |                    | ID    | Advanced Composition (Upper Level)<br>Creativity & Creative Development |            |
|                           |   |           |                    | IE    |   |            |
| CHEM 111                  | General Chemistry I                       | 4         | CHEM 110           | IIA   |   | 1041       |
| CHEM 112                  | General Chemistry II                      | 4         | CHEM 111           | IIA   |   | 1042       |
| GH                        | Arts & Humanities                         | 3         | Depends on choice. | IIB1  |   |            |
| PHIL 205                  | Ethics (GH)                               | 3         | PHIL 253           | IIB3  | Transfers as IIB3-10T<br>Or<br>Transfers as IIB3-10T                    | 6548       |
| Or<br>PHIL 221            | Business Ethics (GH)                      |           | PHIL TLL           |       |   | 10434      |
| Or<br>PHIL 220            | Bioethics (GH)                            |           | PHIL TLL           |       |   | 10434      |
| ENG 109                   | Research Writing                          |           | 3                  |       |   | ENGL 152   |
| GB                        | Behavioral/Social Science Elective        | 3         | Depends on choice. | IIC2  |   |            |
| CJ 101                    | **Intro. Criminal Justice                 | 3**       | CRMJ 254           | IIC2  |   | 7729       |
|                           |   |           |                    | IIC3  | Cultural Plurality & Diversity  |            |
| ANTH 102                  | Intro. to Cultural Anthropology           | 3         | ANTH 207           | IID   |   | 109        |
|                           | <b>TOTAL GenEds</b>                       | <b>36</b> |                    |       |   |            |
| MATH 203                  | Calculus I                                | 4         | MATH 273           |       |   | 4407       |
| MATH 216                  | Statistics                                | 4         | MATH 231           |       |   | 4393       |
| PHYS 101                  | Introductory Physics I                    | 4         | PHYS 211           |       |   | 6800       |
| PHYS 102                  | Introductory Physics II                   | 4         | PHYS 212           |       |   | 6801       |
| CHEM 207                  | Organic Chemistry I                       | 4         | CHEM 331           |       | Transfers as lower level credit.  | 10134      |
| CHEM 208                  | Organic Chemistry II                      | 4         | CHEM 332           |       | Transfers as lower level credit.  | 10135      |
| BIO 120                   | General Biology                           | 4         | BIOL 201           |       |   | 666        |
|                           | Physical Education Elective               | 1         | PHEA TLL           |       |   | 10564      |
|                           | Physical Education/Fitness Elective       | 1         | PHEA TLL           |       |   | 10564      |
|                           | <b>PROGRAM REQUIREMENTS</b>               | <b>30</b> |                    |       |   |            |
|                           | <b>Total Harford Program Requirements</b> | <b>66</b> |                    |       |   |            |
|                           | <b>TOTAL CREDITS IN TRANSFER</b>          | <b>64</b> |                    |       |   |            |

- MATH 203 must be completed at Harford Community College
- If PHYS 203/204 is substituted for PHYS 101/102 at Harford Community College then MATH 203 and 204 must also be completed at HCC.
- \*\*Students must complete a "Course Substitution Appeal Form" through the Records and Registration Office at Harford Community College to substitute this course for the General Education elective.
- 64 credit transfer maximum.
- 9 GenEd credits to be completed at Towson: I.D, I.E and II.C.3.

• **Major Requirements to be completed at Towson (58 Units)**

|          |   |     |
|----------|---|-----|
| ANTH 357 | Introduction to Forensic Crime Analysis                       | (3) |
| ANTH 457 | Advanced Forensic Crime Investigation                         | (3) |
| BIOL 309 | Principles of Genetics  | (4) |
| BIOL 409 | Molecular Biology   | (3) |
| BIOL 410 | Molecular Biology Laboratory                                  | (2) |
| CHEM 210 | Introduction to Analytical Chemistry                          | (5) |
| CHEM 301 | Professional Ethics for Scientists                            | (3) |
| CHEM 310 | Instrumentation in Analytical Chemistry                       | (3) |
| CHEM 323 | Inorganic Chemistry   | (4) |
| CHEM 345 | Principles of Physical Chemistry                              | (3) |
| CHEM 351 | Biochemistry I  | (3) |
| CHEM 480 | Chemical Toxicology   | (3) |
| COSC 175 | General Computer Science                                      | (4) |
| FRSC 363 | Chemistry of Dangerous Drugs                                  | (3) |
| FRSC 367 | Forensic Chemistry  | (3) |
| FRSC 368 | Professional Practices in Forensic Science                    | (3) |
| FRSC 440 | Forensic Biochemistry, Emergency Medicine<br>& Death Analysis | (3) |
| SOCI 370 | Criminal Law  | (3) |

Satisfies GenEd I.D requirement (Advance Writing)

• **Total Credits to B.S. Degree (128)**

|  |           |
|--|-----------|
| Harford Chemistry A.S. Degree          | <b>64</b> |
| Completion of GenEd at TU              | 6         |
| Completion of Major Requirements at TU | 58        |