**Harford Community College & West Virginia University**

******Associate of Science leading to**

**Bachelor of Science in Biochemistry (WVU-BS)**

**Suggested Plan of Study**

|  |  |  |  |
| --- | --- | --- | --- |
| **Columbus State Community College** | **Hours** | **WVU Equivalents** | **Hours** |
| Year One, 1st Semester |
| CHEM 111 | 4 | CHEM 115 + CHEM 115L | 4 |
| ENG 101 | 3 | ENGL 101 | 3 |
| MATH 203 | 4 | MATH 155 | 4 |
| Behavioral/Social Science Elective | 3 | Behavioral/Social Science Elective | 3 |
| **TOTAL** | 14 |  | 14 |
| Year One, 2nd Semester |
| CHEM 112 | 4 | CHEM 116 + CHEM 116L | 4 |
| MATH 204 | 4 | MATH 156 | 4 |
| PHYS 203 | 3 | PHYS 2TC | 3 |
| Program Elective | 4 | Program Elective | 4 |
| **TOTAL** | 15 |  | 15 |
| Year Two, 1st Semester |
| CHEM 207 | 4 | CHEM 223 | 4 |
| PHYS 204 | 3 | PHYS 2TC | 3 |
| Program Elective | 6 | Program Elective | 6 |
| Arts/Humanities Elective | 3 | Arts/Humanities Elective | 3 |
| **TOTAL** | 16 |  | 16 |
| Year Two, 2nd Semester |
| CHEM 208 | 4 | CHEM 224 | 4 |
| Program Elective | 3 | Program Elective | 3 |
| Arts/Humanities Elective | 3 | Arts/Humanities Elective | 3 |
| Behavioral/Social Science Elective | 3 | Behavioral/Social Science Elective | 3 |
| Physical Education Elective | 1 | Physical Education Elective | 1 |
| **TOTAL** | 14 |  | 14 |

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| --- |
| **COLUMBUS STATE OR WEST VIRGINIA UNIVERSITY** |
| Summer Session | \*\*PHYS 1250 OR \*\*PHYS 111 | 5/4 |
| **WEST VIRGINIA UNIVERSITY** |

**American Chemical Society Track**

|  |  |
| --- | --- |
| Year Three, 1st Semester | Year Three, 2nd Semester |
| BIOL 219 | 4 | BIOL 310 | 3 |
| PHYS 112 | 4 | CHEM 341 & CHEM 342 | 4 |
| CHEM 215 | 4 | CHEM 462 & CHEM 464 | 4 |
| AGBI 410 & AGBI 412 | 4 | STAT 211 | 3 |
| **TOTAL** | 16 | **TOTAL** | 14 |
| Year Four, 1st Semester | Year Four, 2nd Semester |
| CHEM 401 | 1 | CHEM 310 | 3 |
| CHEM 422 | 3 | CHEM 403 | 1 |
| CHEM 497 | 3 | Biochemistry Elective | 6 |
| Biochemistry Elective | 6 |  |  |
| **TOTAL** | 13 | **TOTAL** | 10 |

**American Society of Biochemistry and Molecular Biology Track**

|  |  |
| --- | --- |
| Year Three, 1st Semester | Year Three, 2nd Semester |
| AGBI 410 & AGBI 412 | 4 | PHYS 101 | 4 |
| CHEM 215 | 4 | BIOL 310 | 3 |
| BIOL 219 | 4 | CHEM 462 & CHEM 464 | 4 |
| STAT 211 | 3 | Biochemistry Elective | 3 |
| **TOTAL** | 15 | **TOTAL** | 14 |
| Year Four, 1st Semester | Year Four, 2nd Semester |
| BIOL 423 | 3 | AGBI 401 | 1 |
| Biochemistry Elective | 4 | CHEM 341 & 342 | 4 |
| Biochemistry Elective | 3 | BIOL 313 or 410 | 3 |
| PHYS 102 | 4 | Biochemistry Elective | 4 |
|  |  | BIOCHEM Capstone  | 3 |
| **TOTAL** | 14 | **TOTAL** | 15 |

\*\*Students who seek to pursue to the American Chemical Society track are required to take PHYS 111, or its equivalent through Columbus State, prior to the first fall semester at West Virginia University. This allows for students to maintain progression through Physical Chemistry courses, and their subsequent courses in their senior year. Those students seeking the American Society of Biochemistry and Molecular Biology track can forgo this requirement and take their Physics courses as listed in the spring of their 3rd year.

Students transferring to West Virginia University with an Associate of Arts or Associate of Science degree will have satisfied the General Education Foundation requirements at WVU.

Students who have questions regarding this articulation agreement or the transferability of coursework may contact the WVU Office of the University Registrar. All other questions should be directed to the WVU Office of Admissions.

The above transfer articulation of credit between West Virginia University and Harford Community College, is approved by the Dean, or the Dean’s designee, and effective the date of the signature.

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 Print Name Signature Date

J. Todd Petty Ph.D. Associate Dean for WVU’s Agriculture and Natural Resources

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 Print Name Signature Date

Valerie Lastinger Ph. D. Associate Dean of Academic Affairs, WVU Eberly College of Arts & Sciences