

| <b>A.S. in Mathematics/Natural Science</b>                               |  |              |                                |                                 |  |
|--|--|--------------|--------------------------------|---------------------------------|--|
| <b>to</b>  |  |              |                                |                                 |  |
| <b>B.S. in Biology: Cell and Molecular Concentration (Pre-Med Track)</b> |  |              |                                |                                 |  |
| <b>Delaware County Community College</b>                                 |  |              | <b>West Chester University</b> |                                 |  |
| <b>First Semester</b>  |  |              | <b>First Semester</b>          |                                 |  |
| ENG 100  | English Composition I  | 3            | WRT 120                        | Effective Writing I             |  |
| CS 100 or 101  | Introduction to Information Technology or Introduction to Computer Science   | 3            |                                | Dependent upon course selection |  |
| BIO 110, CHE 110, ESS 110, PHY 110 or PHY 131                            | Scientific Inquiry Elective (Recommend CHE 110)  | 4            | CHE 103                        | General Chemistry I and Lab     |  |
| MAT 151, 152, or 160   | Mathematics Elective (Recommend MAT 160 Calculus I)  | 4            | MAT 161                        | Calculus I                      |  |
|  | Any transferable Diversity and Social Justice (DJ) designated Social Science course  | 3            |                                | Dependent upon course selection |  |
|  |  | 17           |                                |                                 |  |
| <b>Second Semester</b>   |  |              | <b>Second Semester</b>         |                                 |  |
| ENG 112  | English Composition II: Writing About Literature   | 3            | WRT 200                        | Critical Writing and Research   |  |
|  | Laboratory Science Elective (Recommend CHE 111)  | 4            | CHE 104                        | General Chemistry II and Lab    |  |
| MAT 210  | Mathematics Elective   | 3 - 4        | MAT 121                        | Introduction to Statistics I    |  |
|  | Any transferable Global Understanding designated Humanities course   | 3            |                                | Dependent upon course selection |  |
|  | Social Science Elective  | 3            |                                | Dependent upon course selection |  |
|  |  | 16 - 17      |                                |                                 |  |
| <b>Third Semester</b>  |  |              | <b>Third Semester</b>          |                                 |  |
| COMM 100 or 111  | Interpersonal Communication or Public Speaking (Recommend COMM 111)  | 3            | SPK 208                        | Public Speaking                 |  |
|  | Mathematics/Laboratory Science Electives (Recommend CHE 200)   | 3-4          | CHE 231                        | Organic Chemistry I and Lab     |  |
|  | Mathematics/Laboratory Science Electives (Recommend PHY 110)   | 3-4          | PHY 130                        | General Physics I and Lab       |  |
|  | Social Science   | 3            |                                | Dependent upon course selection |  |
|  | Open Elective (Recommend BIO 110)  | 3 - 4        | BIO 110                        | General Biology I               |  |
|  |  | 15 - 18      |                                |                                 |  |
| <b>Fourth Semester</b>   |  |              | <b>Fourth Semester</b>         |                                 |  |
|  | Mathematics/Laboratory Science Electives (Recommend CHE 201)   | 3-4          | CHE 232                        | Organic Chemistry II and Lab    |  |
|  | Mathematics/Laboratory Science Electives (Recommend PHY 111)   | 3-4          | PHY 140                        | General Physics II and Lab      |  |
|  | Open Elective (Recommend BIO 111)  | 3-4          | BIO 111                        | General Biology II              |  |
| BIO 250  | Open Elective (Recommend Genetics)   | 3-4          | BIO 210                        | Genetics                        |  |
|  |  | 12-16        |                                |                                 |  |
|  | <b>Total Credits:</b>  | <b>60-68</b> |                                | <b>Total Credits:</b>           |  |
| <b>Notes:</b>  |  |              |                                |                                 |  |
| 1  | Students need to keep in mind the sequence of BIO courses. BIO 110 and 111 should be taken First and Second Semester, if possible. |              |                                |                                 |  |
| 2  | BIO 240 Microbiology is recommended prior to transfer.   |              |                                |                                 |  |
| 3  | PreMed students should be selecting PSY 140 and SOC 110 for their Social Science electives.  |              |                                |                                 |  |
| 4  | Students are recommended to take POL 120 and PHI 110.  |              |                                |                                 |  |

# A.S. in Science for Health Professions

to

## B.S. in Biology: Cell and Molecular (PreMed Track)

| DCCC                    |   |              | WCU                    |                                 |   |
|-------------------------|---|--------------|------------------------|---------------------------------|---|
| <b>First Semester</b>   |   |              | <b>First Semester</b>  |                                 |   |
| ENG 100                 | English Composition I   | 3            | WRT 120                | Effective Writing I             | 3 |
| BIO 110 or<br>BIO 150   | General Biology I or<br>Human Anatomy and Physiology I  | 4            | BIO 110                | General Biology I               | 4 |
| CHE 101 or<br>CHE 110   | Introduction to General Chemistry or<br>General Chemistry I   | 4            | CHE 103                | General Chemistry I and Lab     | 4 |
|                         | Mathematics Elective <sup>1</sup>   | 3 - 4        | MAT 161                | Calculus I                      | 3 |
|                         |   | 14 - 15      |                        |                                 |   |
| <b>Second Semester</b>  |   |              | <b>Second Semester</b> |                                 |   |
| ENG 112                 | English Composition II: Writing About<br>Literature   | 3            | WRT 200                | Critical Writing and Research   | 3 |
| COMM 100 or<br>COMM 111 | Interpersonal Communication or Public<br>Speaking   | 3            | SPK 208                | Public Speaking                 | 3 |
|                         | Mathematics Required Elective <sup>2</sup>  | 3 - 4        | MAT 121                | Introduction to Statistics I    | 3 |
|                         | Laboratory Science Required Elective <sup>3</sup>   | 4            | BIO 111                | General Biology II and Lab      | 4 |
|                         | Any transferable Diversity and Social<br>Justice and Global Understanding<br>designed Social Science or Humanities<br>course  | 3            |                        | Dependent upon course selection | 3 |
|                         |   | 16 - 17      |                        |                                 |   |
| <b>Third Semester</b>   |   |              | <b>Third Semester</b>  |                                 |   |
| CS 100 or<br>CS 101     | Introduction to Information Technology or<br>Introduction to Computer Science   | 3            |                        | Dependent upon course selection | 4 |
|                         | Mathematics/Science Required Elective <sup>4</sup>  | 3-5          | CHE 104                | General Chemistry II and Lab    | 4 |
|                         | Laboratory Science Required Elective <sup>3</sup>   | 4-5          | CHE 231                | Organic Chemistry I and Lab     | 4 |
|                         | Social Science Elective   | 3            |                        | Dependent upon course selection | 3 |
|                         | Humanities Elective   | 3            |                        | Dependent upon course selection | 3 |
|                         |   | 16 - 19      |                        |                                 |   |
| <b>Fourth Semester</b>  |   |              | <b>Fourth Semester</b> |                                 |   |
|                         | Mathematics/Science Required Elective <sup>4</sup>  | 3-5          | BIO 210                | Genetics                        | 3 |
|                         | Mathematics/Science Required Elective <sup>4</sup>  | 3-5          | PHY 130                | General Physics I and Lab       | 3 |
|                         | Social Science Elective   | 3            |                        | Dependent upon course selection | 3 |
|                         | Open Elective   | 3            | CHE 232                | Organic Chemistry II and Lab    | 4 |
|                         | Open Elective   | 3            | PHY 140                | General Physics II and Lab      | 4 |
|                         |   | 15 - 19      |                        |                                 |   |
|                         | <b>Total Credits</b>  | <b>61-70</b> |                        | <b>Total Credits:</b>           |   |
| <b>Notes:</b>           |   |              |                        |                                 |   |
| 1                       | Select from: MAT 121, 151, 152, or 160. Calculus I is required by WCU.  |              |                        |                                 |   |
| 2                       | Select from: MAT 121, 128, 151, 152, 160, 161, 200, 210, 230, 260, 261. Statistics is required by WCU.  |              |                        |                                 |   |
| 3                       | Select from: BIO 110, 111, 150, 151, 200, 210, 230, 240, 250; CHE 101, 102, 110, 111, 200, 201; PHY 110, 111, 131 or 132. Students should take BIO 110, 111, CHE 110, 111, 200, 201, PHY 110 and 111 for WCU. |              |                        |                                 |   |
| 4                       | Select from: MAT 121, 128, 151, 152, 160, 161, 200, 210, 230, 260, 261; BIO 110, 111, 150, 151, 200, 210, 220, 230, 240, 250; CHE 101, 102, 110, 111, 200, 201; PHY 110, 111, 131, 132.                       |              |                        |                                 |   |
| 5                       | Students should consider also completing BIO 240, PSY 140, SOC 140, POL 120 and PHI 110 for WCU.  |              |                        |                                 |   |