

**Appendix A**

**PCCC A.S.L.A. Physical Science Option to WPU B.S. Environmental Science**

| PCCC Courses – A.S.L.A.  |   |     | WPU Equivalency B.S.  |   |     |
|--|---|-----|---|---|-----|
| Course Code  | Course Name   | Cr  | Course Code   | Course Name   | Cr  |
| <b>Semester 1</b>  |   |     |   |   |     |
| CIS 101<br>or<br>CIS 107   | Computer Concepts and Applications<br>or<br>Information Technology Fundamentals & Applications                                | 3   | CS 2010<br>or<br>CS 2010  | Computer & Information Technology<br>or<br>Computer & Information Technology  | 3   |
| CH 111   | General Chemistry I   | 4   | CHEM 1600   | General Chemistry I   | 4   |
| EN 101   | Composition I   | 3   | ENG 1100  | College Writing   | 3   |
| MA 109<br>or<br>MA 120<br>or<br>MA 121<br>or<br>MA 201<br>or<br>MA 202 | Pre-Calculus Mathematics<br>or<br>Calculus I<br>or<br>Calculus II<br>or<br>Calculus III<br>or<br>Differential Equations       | 4   | MATH 1160<br>or<br>MATH 1600<br>or<br>MATH 1610<br>or<br>MATH 2010<br>or<br>MATH 3220 | Pre-Calculus<br>or<br>Calculus I<br>or<br>Calculus II<br>or<br>Calculus III<br>or<br>Differential Equations   | 4   |
|  | Humanities Course   | 3   |   | Equivalent Humanities Course  | 3   |
| Semester Credits   |   | 17  | Semester Credits  |   | 17  |
| <b>Semester 2</b>  |   |     |   |   |     |
| PY 120   | Physics I   | 4   | PHYS 2600   | General Physics I   | 4   |
| CH 112   | General Chemistry II  | 4   | CHEM 1620   | General Chemistry II  | 4   |
| EN 102   | Composition II  | 3   | ENG 1500  | Experiences in Literature   | 3   |
| MA 109<br>or<br>MA 120<br>or<br>MA 121<br>or<br>MA 201<br>or<br>MA 202 | Pre-Calculus Mathematics<br>or<br>Calculus I<br>or<br>Calculus II<br>or<br>Calculus III<br>or<br>Differential Equations       | 4   | MATH 1160<br>or<br>MATH 1600<br>or<br>MATH 1610<br>or<br>MATH 2010<br>or<br>MATH 3220 | Pre-Calculus<br>or<br>Calculus I<br>or<br>Calculus II<br>or<br>Calculus III<br>or<br>Differential Equations   | 4   |
| Semester Credits   |   | 15  | Semester Credits  |   | 15  |
| <b>Semester 3</b>  |   |     |   |   |     |
| PY 121   | Physics II  | 4   | PHYS 2610   | General Physics II  | 4   |
|  | Social Science Elective   | 3   |   | Equivalent Social Science Course  | 3   |
| BS 103<br>or<br>BS 104<br>or<br>BS 203<br>or<br>BS 207<br>or<br>BS 212 | Anatomy & Physiology I<br>or<br>Anatomy & Physiology II<br>or<br>Microbiology<br>or<br>Cell Biology<br>or<br>Biology of Aging | 3-4 | BIO 1180<br>or<br>BIO 1190<br>or<br>BIO 1700<br>or<br>BIO 2050<br>or                  | Basic Anatomy & Physiology I<br>or<br>Basic Anatomy & Physiology II<br>or<br>Basic Microbiology<br>or<br>Cell Biology<br>or<br>Free Elective/minor course | 3-4 |

|  |  |           |  |  |       |
|--|--|-----------|--|--|-------|
| or<br>SC 104   | or<br>Introduction to<br>Environmental Science   |           | ENV 1100   | or<br>Environmental Sustainability   |       |
| or<br>SC 206   | or<br>Environmental Ethics   |           | or   | or<br>Free Elective/minor course   |       |
| or<br>SC 202   | or<br>Introduction to Geology  |           | ENV 1150   | or<br>General Geology  |       |
| CH 211<br>or<br>MA 201   | Organic Chemistry I<br>or<br>Calculus III  | 4         | CHEM 2570<br>or<br>MATH 2010   | Organic Chemistry I<br>or<br>Calculus III  | 4     |
| Semester Credits   |  | 14-15     | Semester Credits   |  | 14-15 |
| <b>Semester 4</b>  |  |           |  |  |       |
| SC 290   | Select Topics in Science   | 3         |  | Degree credit  | 3     |
|  | Humanities<br>or<br>Social Science Course  | 3         |  | Equivalent Humanities<br>or<br>Social Science Course   | 3     |
| CH 212<br>OR<br>MA 202   | Organic Chemistry II<br>or<br>Differential Equations   | 4         | CHEM 2580<br>or<br>MATH 3220   | Organic Chemistry II<br>or<br>Differential Equations   | 4     |
| BS 103<br>or<br>BS 104<br>or<br>BS 203<br>or<br>BS 207<br>or<br>BS 212<br>or<br>SC 104<br><br>or<br>SC 206<br>or<br>SC 202 | Anatomy & Physiology I<br>or<br>Anatomy & Physiology II<br>or<br>Microbiology<br>or<br>Cell Biology<br>or<br>Biology of Aging<br>or<br>Introduction to<br>Environmental Science<br>or<br>Environmental Ethics<br>or<br>Introduction to Geology | 3-4       | BIO 1180<br>or<br>BIO 1190<br>or<br>BIO 1700<br>or<br>BIO 2050<br>or<br><br>ENV 1100<br><br>or<br><br>ENV 1150 | Basic Anatomy & Physiology I<br>or<br>Basic Anatomy & Physiology II<br>or<br>Basic Microbiology<br>or<br>Cell Biology<br>or<br>Free Elective/minor course<br>or<br>Environmental Sustainability<br><br>or<br>Free Elective/minor course<br>or<br>General Geology | 3-4   |
| Semester Credits   |  | 13-14     | Semester Credits   |  | 13-14 |
| <b>Credit Total</b>  |  | <b>60</b> | <b>60 Credits required for the major</b>   |  |       |
| <b>Semester 5</b>  |  |           |  |  |       |
|  | MATH 2300  |           | Statistics I (Major supporting course)   |  | 4     |
|  | ENV 3750   |           | Soils  |  | 3     |
|  |  |           | Environmental Science Elective   |  | 4     |
|  |  |           | World Language I<br>or<br>ASL I  |  | 3     |
| Semester Credits   |  |           |  |  | 14    |
| <b>Semester 6</b>  |  |           |  |  |       |

|  |   |            |
|--|---|------------|
| ENV 3800   | Junior Seminar (Major requirement)                  | 3          |
| ENV 4700   | Hydrogeology (Major elective)                       | 3          |
|  | Social/Policy Elective                              | 3          |
|  | Environmental Science Elective                      | 3          |
|  | World Language II<br>or<br>ASL II                   | 3          |
| Semester Credits                                 |   | 15         |
| <b>Semester 7</b>                                |   |            |
| ENV 3010   | Field Experience (Major requirement)                | 3          |
| ENV 3170   | Global Climate Change (Major elective)              | 4          |
| ENV 4800   | Senior Environmental Practicum (Major requirement)  | 3          |
| BIO 1620   | General Biology: Evolution, Ecology & Biodiversity  | 4          |
|  | Free elective, Tech. Intensive or Writing Intensive | 3          |
| Semester Credits                                 |   | 17         |
| <b>Semester 8</b>                                |   |            |
| ENV 3600   | Ecosystem Sustainability                            | 3          |
| BIO 1630   | General Biology: Cell, Molecular & Genetics         | 4          |
|  | Free elective, Tech. Intensive or Writing Intensive | 3          |
|  | Free elective, Tech. Intensive or Writing Intensive | 3          |
|  | Free elective, Tech. Intensive or Writing Intensive | 1          |
| Semester Credits                                 |   | 14         |
| <b>Credit Total</b>                              |   | <b>120</b> |
| <u>WPU Social and Policy Electives:</u>          |   |            |
| ECON 2300 Economics of the Environment (3cr)     |   |            |
| ENV 3400 Environmental Law (3cr)                 |   |            |
| ENV 3890 Environmental Factors in Land Use       |   |            |
| POL 3550 Politics of the Environment (3cr)       |   |            |
| <u>Environmental Sustainability Electives:</u>   |   |            |
| ENV 2170 Introduction to Oceanography (4cr)      |   |            |
| ENV 2200 Earth through Time (4cr)                |   |            |
| ENV 2500 Meteorology (3cr)                       |   |            |
| ENV 3050 Minerology/Petrology (3cr)              |   |            |
| ENV 3170 Global Climate Change (4cr)             |   |            |
| ENV 3200 Geochemistry (3cr)                      |   |            |
| ENV 3270 Geomorphology (3cr)                     |   |            |
| ENV 3400 Environmental Law (3cr)                 |   |            |
| ENV 3500 Energy and Sustainable Technology (3cr) |   |            |

|   |  |
|---|--|
| ENV 3600 Ecosystem Sustainability (3cr)<br>ENV 3890 Environmental Factors in Land Use (3cr)<br>ENV 3990 Selected Topics (1-6 cr)<br>ENV 4230 Pollutions, Hazards, Impact and Risk (3cr)<br>ENV 4990 Independent Study (3cr) |  |
|---|--|

Notes: 1. William Paterson University will accept all associate degree credits under this program-to-program articulation agreement, including up to half of the William Paterson University major required credits, from New Jersey community college students who enroll at William Paterson University

2. William Paterson University recommends students to take two semesters of one foreign language at the community college. Two semesters of American Sign Language can also fulfill the foreign language requirement.

3. WP Online students should always refer to the semester course schedule when choosing electives, as elective course offerings may vary each semester.

Effective 3/12/2024