

Appendix B

Associate of Science in Biology at Bergen Community College and Bachelor of Science in Biology at William Paterson University, College of Science and Health

| <u>Bergen Courses AS</u> | <u>Credits</u> | <u>WP Equivalency BS</u> |
|--|----------------|--|
| <u>Semester 1</u> | | |
| BIO101 General Biology I | 4 | BIO 1630 General Biology: Cell, Molecular, and Genetics |
| CHM140 General Chemistry I | 3 | CHEM1600 Gen Chemistry I |
| CHM141 General Chemistry - Lab | 1 | CHEM0600 General Chemistry I: Lab |
| MAT180 Precalculus: College Algebra and Trigonometry | 4 | MATH1160 Precalculus |
| ENG101 English Composition I | 3 | ENG1100 College Writing |
| 15 | | |
| <u>Semester 2</u> | | |
| MAT268 Statistical Methods OR MAT 280 Calculus | 4 | MATH2300 Statistics I OR MATH1600 Calculus I |
| BIO203 General Biology II | 4 | BIO 1620 General Biology II |
| CHM240 General Chemistry II | 3 | CHEM1620 General Chemistry II |
| CHM241 General Chemistry II - Lab | 1 | |
| ENG201 English Composition II | 3 | ENG1500 Experiences in Literature |
| 15 | | |
| <u>Semester 3</u> | | |
| Biology Elective | 4 | Equivalent Biology Credit |
| Natural Science or Mathematics/ Computer Science Elective | 4 | Equivalent Natural Science or Mathematics/Computer Science Credit |
| Social Science Elective | 3 | Equivalent Social Science Credit |
| Free Elective (Recommend World Language I) | 3 | Equivalent World Language I Course |
| 14 | | |
| <u>Semester 4</u> | | |
| Biology Elective | 4 | Equivalent Biology Credit |
| Free Elective | 3 | Degree Credits |

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|---|---|---|
| Humanities Elective (Recommend World Language II) | 3 | Equivalent World Language II Credit |
| Humanities Elective | 3 | Equivalent Humanities Credit |
| COM 100 Speech Communication OR COM102 Public Speaking | 3 | COMM1100 Communication in Action or COMM2630 Public Speaking |

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BS General Biology (67 to 71 credits in the major)

Semester 5

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|---|--|
| 4 | CHEM2570 Organic Chemistry I |
| 4 | PHYS 2550 College Physics I OR PHYS 2560 College Physics II |
| 4 | BIO 2060 General Genetics Credit |
| 3 | World Languages I or ASL I |

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Semester 6

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| 4 | MATH 2300 Statistics I or MATH1600 Calculus I or MATH 3720 Mathematical Models for Biological Sciences |
| 4 | BIO 2040 General Biology: Physiology |
| 3 | World Languages II or ASL II |
| 4 | BIO 2050 Cell Biology |

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Semester 7

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| 4 | Choose a major elective (see below) |
| 4 | Choose a major elective (see below) |
| 4 | Choose a major elective (see below) |
| 4 | Choose Biology Major Plant elective (see below) |

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Semester 8

| | |
|---|--|
| 4 | BIO 4800 Biology Seminar or BIO4990 Independent Study |
| 4 | Choose a major elective (see below) |
| 4 | Choose a major elective (see below) |
| 3 | Choose a free elective |

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Biology Major Electives (5 required courses)

Two courses must be four credit 3000-level Biology courses. Students may use PHYS 2560 or PHYS 2610 to fulfill one Biology Elective. BIO 3120 may not be used to fulfill this requirement.

BIO 3020 - BIO 4850:

In addition, the following course also counts as a Biology Major Elective:

CHEM 2580 Organic Chemistry II Credits: 4.0

CHEM 4270 Biochemistry Credits: 4.0

PHYS 2610 General Physics II

Biology Major Plant Elective (3 credits required)

BIO 3610 General Botany

BIO 3650 Plant Physiology

BIO 3350 Field Botany

BIO 4630 Terrestrial Plant Ecology

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 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 check with their advisor and/or refer to the semester course schedule when choosing electives, as elective course offerings may vary each semester.