

**Appendix A**  
**PCCC A.S.L.A. Biology Option to WPU B.S. Biology-Ecology**

PCCC Courses – A.S.L.A.			WPU Equivalency B.S.		
Course Code	Course Name	Cr	Course Code	Course Name	Cr
Semester 1					
BS 101	Biology I	4	BIO 1630	General Biology: Cell, Molecular and Genetics	4
CH 111	General Chemistry I	4	CHEM 1600	General Chemistry I	4
EN 101	Composition I	3	ENG 1100	College Writing	3
MA 109 or MA 120 or MA 121 or MA 201 or MA 202	Pre-Calculus Mathematics or Calculus I or Calculus II or Calculus III or Differential Equations	4	MATH 1160 or MATH 1600 or MATH 1610 or MATH 2010 or MATH 3220	Pre-Calculus or Calculus I or Calculus II or Calculus III or Differential Equations	4
Semester Credits		15	Semester Credits		15
Semester 2					
BS 102	Biology II	4	BIO 1620	General Biology: Evolution, Ecology and Biodiversity	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 or MA 120 or MA 121 or MA 201 or MA 202	Pre-Calculus Mathematics or Calculus I or Calculus II or Calculus III or Differential Equations	4	MATH 1160 or MATH 1600 or MATH 1610 or MATH 2010 or MATH 3220	Pre-Calculus or Calculus I or Calculus II or Calculus III or Differential Equations	4
Semester Credits		15	Semester Credits		15
Semester 3					
CIS 101 or CIS 107	Computer Concepts and Applications or Information Technology Fundamentals & Applications	3	CS 2010 or CS 2010	Computer & Information Technology or Computer & Information Technology	3
	Social Science Course	3		Equivalent Social Science Course	3
	Humanities Course	3		Equivalent Humanities Course	3

BS 103 or BS 104 or BS 203 or BS 207 or BS 212 Or SC 104  or SC 206	Anatomy & Physiology I or Anatomy & Physiology II or Microbiology or Cell Biology or Biology of Aging or Introduction to Environmental Science or Environmental Ethics	3-4	BIO 1180 or BIO 1190 or BIO 1700 or BIO 2050 or  ENV 1100	Basic Anatomy & Physiology I or Basic Anatomy & Physiology II or Basic Microbiology or Cell Biology or Free Elective/minor course or Environmental Sustainability  or Free Elective/minor course	3-4
CH 211 or PY 101 or PY121	Organic Chemistry I or College Physics I or Physics I	4	CHEM 2570 or PHYS 2550 or PHYS 2600	Organic Chemistry I or College Physics I or General Physics I	4
Semester Credits		16- 17	Semester Credits		16- 17
<b>Semester 4</b>					
SC 290	Select Topics in Science	3		Degree credit	3
CH 212 or PY 102 or PY 121	Organic Chemistry II or College Physics II or Physics II	4	CHEM 2580 or PHYS 2560 or PHYS 2610	Organic Chemistry II or College Physics II or General Physics II	4
BS 103 or BS 104 or BS 203 or BS 207 or BS 212 Or SC 104  or SC 206 Or SC 202	Anatomy & Physiology I or Anatomy & Physiology II or Microbiology or Cell Biology or Biology of Aging or Introduction to Environmental Science or Environmental Ethics or Introduction to Geology	3-4	BIO 1180 or BIO 1190 or BIO 1700 or BIO 2050 or  ENV 1100   or ENV 1150	Basic Anatomy & Physiology I or Basic Anatomy & Physiology II or Basic Microbiology or Cell Biology or Free Elective/minor course or Environmental Sustainability  or Free Elective/minor course or General Geology	3-4
	Humanities or Social Science Course	3		Equivalent Humanities or Social Science Course	3

Semester Credits		13-14	Semester Credits		13-14
<b>Credit Total</b>		<b>60</b>	<b>Semester 5</b>		
			BIO 2040	General Biology: Physiology	4
			CHEM 2570* or PHYS 2550* or PHYS 2600* *(if not taken at PCCC)	Organic Chemistry I* or College Physics I* or General Physics I*	4
			MATH 1610 or MATH 2300 or MATH 3720	Calculus II or Statistics I or Mathematical Models for Biological Sciences	4
			PHYS 2550* or PHYS 2600* *(if not taken at PCCC)	College Physics I* or General Physics I*	4
			Semester Credit		16
			<b>Semester 6</b>		
				Ecology Track Elective	3
				Biology Major Elective	3
			BIO 2050* or Biology/Ecology Major Elective *(if not taken at PCCC)	Cell Biology or Biology/Ecology Major Elective	4
			BIO 2060	General Genetics	4
				World Language I or ASL I	3
			Semester Credit		17
			<b>Semester 7</b>		
			BIO 3400	Ecology	4
			BIO 4630	Terrestrial Plant Ecology	4
				Biology Major Elective	3
				World Language II or ASL II	3
			Semester Credit		14
			<b>Semester 8</b>		
			BIO 4800 or BIO 4990	Biology Seminar or Independent Study	4

	Biology Major Elective	3
	Free Elective/minor course	3
	Free Elective/minor course	3
	Semester Credit	13
	<b>Credit Total</b>	<b>120</b>
Ecology Track Elective Requirement – Required Course: 1 BIO 3180 Zoology BIO 3330 Field Entomology BIO 3350 Field Botany BIO 3450 Conservation Biology BIO 3500 Animal Behavior BIO 3610 General Biology BIO 4020 Aquatic Ecology BIO 4440 Evolution BIO 5030 Advanced Ecology BIO 5130 Microbial Ecology BIO 5750 Population Biology		
Biology Major Elective Requirement – Required Courses: 3 BIO 3120 Advanced Anatomy & Physiology will not fulfill this requirement Any courses whose code falls within BIO 3000-BIO 4850 In addition, the following course may also count as a Biology Major Elective: CHEM 4270 Biochemistry		

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