

Appendix 39

**Associate of Science in Science and Math: Pre-Medical Dental at Sussex County Community College
and
Bachelor of Science in Biology: Pre-Medical Option at William Paterson University, College of Science and Health**

<u>SCCC Courses AS</u>	<u>Credits</u>	<u>WP Equivalencies BS</u>
	<u>Semester 1</u>	
COLL 101 Foundations for Success	3	WPU1010 Will. Power
ENGL 101 English Composition I	3	ENG1100 College Writing
BIOS 110 Biology I	4	BIO1630 General Biology: Cell, Molecular, and Genetics
CHEM 110 College Chemistry I	4	CHEM1600 General Chemistry I
	<u>Semester 2</u>	
ENGL 102 English Composition II	3	ENG1500 Experiences in Literature
MATH113 Calculus I	4	MATH 1600 Calculus I
BIOS 112 Biology II	4	BIO1620 General Biology: Evolution, Ecology & Biodiversity
CHEM 112 College Chemistry II	4	CHEM1620 General Chemistry II
	<u>Semester 3</u>	
CHEM210 Organic Chemistry	5	CHEM2570 Organic Chemistry I
PHYS110 Physics I	4	PHYS2550 College Physics I
MATH114 Calculus II	4	MATH1610 Calculus II
Social Science Requirement	3	Equivalent Social Science Credit
	<u>Semester 4</u>	
CHEM212 Organic Chemistry II	5	CHEM2580 Organic Chemistry II
PHYS112 Physics II	4	PHYS2560 College Physics II
Humanities Requirement (Recommend World Language I)	3	Equivalent Humanities Credit or World Language I Credit
Social Science Requirement	3	Equivalent Social Science Credit
WP BS Biology Pre-Medical Track (70-74 credits in the major)		
	<u>Semester 5</u>	
	3	World Languages II or ASL II
	4	BIO 2040 General Biology: Physiology
	4	BIO 2050 Cell Biology
	3	Choose a free elective/minor course
	<u>Semester 6</u>	
	4	BIO 2060 General Genetics
	3	Choose a free elective/minor course
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	3	Choose a free elective/minor course

	Semester 7	
	4	Choose a Pre-Medical Professions Concentration Elective (list below)
	4	Choose a Pre-Medical Professions Concentration Elective (list below)
	3	Choose a free elective/minor course
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	3	Choose a free elective/minor course
	Semester 8	
	3	BIO4800 Biology Seminar OR BIO4900 Independent Study
	4	Choose a Pre-Medical Professions Concentration Elective (list below)
	4	Choose a Pre-Medical Professions Concentration Elective (list below)
	3	Choose a free elective/minor course
		Pre-Medical Professions Concentration Electives
		Required Courses: 4
		BIO 3180 Zoology Credits: 4.0
		BIO 3500 Animal Behavior Credits: 3.0
		BIO 3720 Mathematical Models in The Biological Sciences Credits: 4.0
		BIO 4210 Developmental Biology Credits: 4.0
		BIO 4220 Human Physiology Credits: 3.0
		BIO 4240 Molecular Biology Credits: 3.0
		BIO 4340 Geonomics and Bioinformatics Credits: 4.0
		BIO 4430 Evolutionary Medicine Credits:
		BIO 4440 Evolution Credits: 3.0
		BIO 4600 Pharmacology Credits: 3.0
		BIO 4700 Bioethics Credits: 3.0
		BIO 4740 Neuroscience Credits: 4.0
		CHEM 4270 Biochemistry Credits: 4.0
		Students may choose either BIO 3610 or BIO 3650 to fulfill one elective
		BIO 3610 General Botany Credits: 4.0
		BIO 3650 Plant Physiology Credits: 4.0
		Students may choose either Phys 2560 or PHYS 2610 to fulfill one elective

Notes:

1. William Paterson University will accept all Associate of Arts, Associate of Science, or Associate of Fine Arts 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 WP Online advisor and/or refer to the semester course schedule when choosing electives, as elective course offerings may vary each semester.