

Associate of Science Degree in Math/Science, Science Option at Brookdale Community College

And

Bachelor of Science Degree in Chemistry at William Paterson University

<b><u>AS Math/Science- Science Option</u></b>			
<b><u>Brookdale Courses</u></b>	<b><u>Credits</u></b>	<b><u>WPU Equivalency</u></b>	<b><u>Credits</u></b>
<b><u>Semester 1</u></b>			
MATH 171 Calculus I	4	MATH 1600	4
ENGL 121 English Composition	3	ENG 1100	3
CHEM 101 General Chemistry I	5	CHEM 1600 General Chemistry I	5
Humanities Credits			
<b><u>Semester 2</u></b>			
MATH 172 Calculus II	4	MATH 1610 Calculus II	4
ENGL 122 English Composition: Writing & Research	3	Elective Credit	3
Social Sciences Credits			
CHEM 102 General Chemistry II	5	CHEM 1620 General Chemistry II	5
<b><u>Semester 3</u></b>			
CHEM 203 Organic Chemistry I	5	CHEM 2570 Organic Chemistry I	5
CHEM 236 Biochemistry	5	CHEM 1310 College Chemistry	4
PHYS 121 General Physics I	4	PHYS 2600 General Physics I	4
<b><u>Semester 4</u></b>			
CHEM 204 Organic Chemistry II	5	CHEM 2580 Organic Chemistry II	5
Humanities or Social Science Credits			
BIOL 101 General Biology I	4	BIO 1630 General Biology, CMG	3
Elective Credits			0 - 5

**BS-Chemistry (54 credits required for the major)**

		<b><u>Biology Major Requirements</u></b>	
		CHEM 2110 Introduction to Instrumental Methods	4
		CHEM 3150 Physical Chemistry I	4
		CHEM 3160 Physical Chemistry II	4
		CHEM 3200 Inorganic Chemistry	4
		CHEM 4010 Analytical Instrumentation	4
		CHEM 4270 Biochemistry	4
		CHEM 4820 Senior Research in Chemistry	3
		<b><u>Advanced Chemistry Elective (Choose 1)</u></b>	
		CHEM 4030 Physical Chemistry III	3
		CHEM 4100 Industrial Chemistry	3
		CHEM 4230 Organic Spectroscopy	4
		CHEM 4280 Biochemistry II	4
Notes:			
1. William Paterson University will accept all associate degree credits under this program-to-program articulation agreement, including up to have 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.			