

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

And

Bachelor of Science Degree in Chemistry at William Paterson University

<b><u>AS Mathematics/Science- Chemistry 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>			
CHEM 101 General Chemistry I	5	CHEM 1600 General Chemistry I	5
ENGL 121 The writing process	3	ENG 1100	3
MATH 153 Pre-Calculus	4	MATH 1160 Pre-Calculus	4
Humanities Credits	3 - 4		
<b><u>Semester 2</u></b>			
CHEM 102 General Chemistry II	5	CHEM 1620 General Chemistry II	5
Social Sciences Credits	3		3
ENGL 122 Writing and Research	3	Elective Credit	3
MATH 171 Calculus I	3	MATH 1600 Calculus I	
<b><u>Semester 3</u></b>			
CHEM 203 Organic Chemistry I	5	CHEM 2570 Organic Chemistry I	5
MATH 172 Calculus II	4	MATH 1610 Calculus II	4
PHYS 121 General Physics I	4	PHYS 2600 General Physics I	4
Humanities or Social Sciences Credits	3 - 4		
<b><u>Semester 4</u></b>			
CHEM 204 Organic Chemistry II	5	CHEM 2580 Organic Chemistry II	5
Elective Credits	0 - 2		
PHYS 122 General Physics II	4	PHYS 2610 General Physics II	4
BIOL 101 General Biology I	4	BIO 1630 General Biology, CMG	3
<b><u>BS Chemistry</u></b>			
		<b><u>Chemistry Major Requirements</u></b>	
		CHEM 2110 Intro to Instrumental Methods	4
		CHEM 3150 Physical Chemistry I	4
		CHEM 3160 Physical Chemistry II	4
		CHEM 3200 Inorganic Chemistry	4
		CHEM 4010 Analytic Instrumentation	4
		CHEM 4270 Biochemistry	4
		CHEM 4820 Senior Research in Chemistry	3
		<b><u>Chemistry Advanced Electives (Choose 1)</u></b>	
		CHEM 4030 Physical Chemistry III	3
		CHEM 4100 Industrial Chemistry	3
		CHEM 4230 Chemistry of Natural Products	4

		CHEM 4260 Organic Spectroscopy	4
		CHEM 4280 Biochemistry II	4
Notes:			
<p>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</p>			
<p>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.</p>			