

Appendix A

Associate in Science Degree in Science and Mathematics-Chemistry Option
at County College of Morris
to
Bachelor of Science and Bachelor of Arts Degrees at William Paterson University
College of Science and Health

Program	Credits	Courses at County College of Morris <i>(32 core Chemistry credits including 12 elective credits; additional 13 elective credits in Biology/Physics, Math/Sci/Tech, and/or General Education Foundation.)</i>	Equivalence at William Paterson University
<i>Associate in Science/Science and Mathematics-Chemistry Option to Chemistry-BA; Chemistry- BS</i>	4	CHM 125 and 126 General Chemistry I Lecture and Lab <i>(required)</i>	CHEM 1600 General Chemistry I <i>(required)</i>
	4	CHM 127 and 128 General Chemistry II Lecture and Lab <i>(required)</i>	CHEM 1620 General Chemistry II <i>(required)</i>
	4	CHM 231 and 232 Organic Chemistry I Lecture and Lab <i>(required)</i>	CHEM 2570 Organic Chemistry I <i>(required)</i>
	4	CHM 233 and 234 Organic Chemistry II Lecture and Lab <i>(required)</i>	CHEM 2580 Organic Chemistry II <i>(required)</i>
	4	MAT 123 Precalculus <i>(required)</i>	MATH 1160 Precalculus <i>(prerequisite)</i>
	4	MAT 131 Analytic Geometry and Calc I <i>(required)</i>	MATH 1600 Calculus I <i>(prerequisite)</i>
	4	MAT 132 Analytic Geometry and Calc II <i>(Math elective)</i>	MATH 1610 Calculus II <i>(required)</i>
	4	PHY 130 Engineering Physics I <i>(Physics elective)</i>	PHYS 2600 General Physics I (calculus-based) <i>(prerequisite)</i>
	4	PHY 133 and 134 Engineering Physics Lecture II and Lab II <i>(Physics elective)</i>	PHYS 2610 General Physics II (calculus-based) <i>(required)</i>

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<i>Associate in Science/Science and Mathematics-Chemistry Option to Environmental Science BS</i>	4	CHM 125 and 126 General Chemistry I-Lecture and Lab <i>(required)</i>	CHEM 1600 General Chemistry I <i>(required)</i>
	4	CHM 127 and 128 General Chemistry II-Lecture and Lab <i>(required)</i>	CHEM 1620 General Chemistry II <i>(required)</i>
	4	CHM 231 and 232 Organic Chemistry I Lecture and Lab <i>(required)</i>	CHEM 2570 Organic Chemistry I <i>(recommended elective)</i>
	4	CHM 233 and 234 Organic Chemistry II Lecture and Lab <i>(required)</i>	CHEM 2580 Organic Chemistry II <i>(recommended elective)</i>
	4	MAT 130 Probability & Statistics <i>(required)</i>	MATH 2300 Statistics I <i>(required)</i>
	4	MAT 131 Analytical Geometry and Calculus I <i>(required)</i>	MATH 1600 Calculus I <i>(prerequisite)</i>
	4	BIO 121 General Biology I <i>(Biology elective)</i>	BIO 1630 General Biology I <i>(prerequisite)</i>
	4	BIO 122 General Biology II <i>(Biology elective)</i>	BIO 1640 General Biology II <i>(required)</i>
	4	BIO 127 Biology of Environmental Concerns <i>(Biology elective)</i>	ENV 1100 Environmental Sustainability <i>(required)</i>
	4	PHY 125 and 126 General Physics I Lecture and Lab <i>(restricted elective)</i>	PHY 2550 College Physics I <i>(prerequisite)</i>
	4	PHY 127 and 128 General Physics II Lecture and Lab <i>(free elective)</i>	PHY 2560 College Physics II <i>(required)</i>
	3	ECO 211 Principles of Economics I Macroeconomics <i>(Highly Recommended Social Science Elective)</i>	ECON 2010 Macroeconomic Principles <i>(required for economics majors; university core curriculum credit-ways of knowing/social and behavioral sciences)</i>
	3	ECO 212 Principles of Economics II Microeconomics <i>(Highly Recommended Social Science Elective)</i>	ECON 2020 Microeconomic Principles <i>(required for business and finance majors; university core curriculum credit-ways of knowing/social and behavioral sciences)</i>

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<p style="text-align: center;"><i>Associate in Science/Science and Mathematics-Chemistry Option to Integrated Math & Science - Environmental Science BA</i></p>	4	CHM 125 and 126 General Chemistry I-Lecture and Lab <i>(required)</i>	CHEM 1600 General Chemistry I <i>(required)</i>
	4	CHM 127 and 128 General Chemistry II-Lecture and Lab <i>(required)</i>	CHEM 1620 General Chemistry II <i>(required)</i>
	4 to 3	CMP 126 Computer Technology & Application <i>(Tech elective)</i>	CS 2010 Computer Information Technology <i>(required)</i>
	4	MAT 130 Probability and Statistics <i>(Math elective)</i>	MATH 2300 Statistics I <i>(required)</i>
	4	BIO 101 Anatomy and Physiology I <i>(free elective)</i>	BIO 1180 Basic Anatomy and Physiology I <i>(accepted as credit for required course BIO 1140 Applied Anatomy and Physiology)</i>
	4	BIO 127 Biology of Environmental concerns <i>(Biology elective)</i>	ENV 1100 Environmental Sustainability <i>(required)</i>
	4	PHY 103 Concepts of Physics <i>(Physics elective)</i>	PHYS 1100 Introduction to Physics <i>(required)</i>

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<p style="text-align: center;"><i>Associate in Science/Science and Mathematics-Chemistry Option to Integrated Math & Science - Chemistry BA</i></p>	4	CHM 125 and 126 General Chemistry I Lecture and Lab <i>(required)</i>	CHEM 1600 General Chemistry I <i>(prerequisite)</i>
	4	CHM 127 and 128 General Chemistry II-Lecture and Lab <i>(required)</i>	CHEM 1620 General Chemistry II <i>(required)</i>
	4	CHM 231 and 232 Organic Chemistry I-Lecture and Lab <i>(required)</i>	CHEM 2570 Organic Chemistry I <i>(required)</i>
	4	CHM 233 and 234 Organic Chemistry II Lecture and Lab <i>(required)</i>	CHEM 2580 Organic Chemistry II <i>(required)</i>
	4	MAT 130 Probability & Statistics <i>(Math elective)</i>	MATH 2300 Statistics I <i>(required)</i>
	4	PHY 103 Concepts of Physics <i>(Physics elective)</i>	PHYS 1100 Introduction to Physics <i>(required)</i>
	4	BIO 101 Anatomy and Physiology <i>(Biology elective)</i>	BIO 1140 Applied Anatomy and Physiology <i>(required)</i>
	4	BIO 127 Bio of Environmental Concerns <i>(Biology elective)</i>	ENV 1100 Environmental Sustainability <i>(required)</i>
4 to 3	CMP 126 Computer Technology and Applications <i>(Technology elective)</i>	CS 2010 Computer and Information Technology <i>(required)</i>	

Notes:

1. 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.
2. 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 Fall 2015 and beyond.