

Planning Information for Science Majors

While a degree in the Arts and Sciences cultivates general knowledge and strengthens intellectual skills, a major in either mathematics or the sciences requires a more specific and focused preparation. Planning ahead and taking the right courses in the first two years will help you complete your Baccalaureate Degree at Binghamton University in a timely fashion.

At the same time, to maximize your success in your coursework, it's important to strike a balance in each semester between the mathematical and science courses required for that major and the courses that fulfill other General Education categories.

For your convenience we list below those mathematic and physical science courses that are common introductory courses required for these majors and typically open to students in the freshman or sophomore college years. This list is not intended to be all inclusive and you are strongly encouraged to consult the Binghamton University Bulletin for requirements for a specific major at <http://bulletin.binghamton.edu/default.asp> and the Transfer Course Equivalencies at <http://bannertools.binghamton.edu/transfer/> for the appropriate course to take at your community college.

Calculus 1 and 2	Binghamton University courses MATH 221 and 222.
Introductory Chemistry 1 and 2	Binghamton University courses CHEM 107 and 108.
Introductory Biology	Binghamton University courses BIOL 117 and BIOL 118.
Physics 1 and 2	Binghamton University courses PHYS 131 and 132 (calculus-based) or PHYS 121 and 122 (noncalculus-based)
Elementary Statistics	Binghamton University course MATH 147.
Organic Chemistry I and II Organic Chemistry Lab	Binghamton University courses CHEM 231 and 332 and Binghamton University course CHEM 335.
Analytical Chemistry	Binghamton University course CHEM 221.

BINGHAMTON COURSES

	MATH 221 / 222	CHEM 107 / 108	BIOL 117 / 118	PHYS 131 / 132 #	MATH 147	CHEM 221	CHEM 231 / 332
MAJORS							
Biochemistry (BS)	R	R	R	R			R
Biological Sciences (BA)	S	R	R	S	A	S	R
Biological Sciences (BS)	S	R	R	S	A	S	R
Chemistry (BA)	R	R		R		R	R
Chemistry (BS)	R	R		R			R
Environmental Studies (BA)		*					
Environmental Studies (BS)		*					
Geological Sciences (BA)	S	*		S	S		S
Geological Sciences (BS)	R	*	S	R			
Mathematical Sciences (BA)	R						
Mathematical Sciences (BS)	R						
Physics (BA)	R			R			
Physics (BS)	R	R		R			
Psychobiology (BS)	S	R	S	S			R
Psychology (BA)	S	S	S	S		S	S

R = required

S = suggested

A= acceptable

* = one semester required

= PHYS 121/122 (non
calculus-based sequence is
also acceptable)

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