

CHEMISTRY MAJOR (B.S.)

120 credits of coursework is required for the baccalaureate degree with a minimum 2.0 overall GPA, and a minimum 2.0 major GPA.

Program Requirements

Students must complete General Education requirements (<http://catalog.montclair.edu/undergraduate-graduate-degree-requirements/general-ed-ba-bs/>) and World Languages and Cultures Requirements (<http://catalog.montclair.edu/undergraduate-graduate-degree-requirements/world-languages-cultures-requirement/>).

Code	Title	Credits
Chemistry Courses		
CHEM 120	General Chemistry I	4
CHEM 121	General Chemistry II	4
CHEM 220	Descriptive Inorganic Chemistry	3
CHEM 230	Organic Chemistry I	3
CHEM 231	Organic Chemistry II	3
CHEM 232	Experimental Organic Chemistry I	2
CHEM 233	Experimental Organic Chemistry II	2
CHEM 310	Analytical Chemistry	5
CHEM 311	Instrumental Analysis	4
CHEM 340	Physical Chemistry I	3
CHEM 341	Physical Chemistry II	3
CHEM 343	Experimental Physical Chemistry	2
CHEM 370	Biochemistry I	3
CHEM 372	Experimental Biochemistry I	2
CHEM 495	The Chemical Literature	1
Laboratory Elective		
CHEM 498	Senior Laboratory	3
or CHEM 499	Undergraduate Research	
Mathematics Courses		
MATH 122	Calculus I	4
MATH 221	Calculus II	4
Physics Courses		
PHYS 191	University Physics I	4
PHYS 192	University Physics II	4
Chemistry Electives		
Select two of the following:		6
CHEM 371	Biochemistry II	
CHEM 420	Advanced Inorganic Chemistry	
CHEM 421	Experimental Inorganic Chemistry	
CHEM 430	Advanced Organic Chemistry	
CHEM 440	Advanced Physical Chemistry	
CHEM 490	Special Topics in Chemistry	
Total Credits		69