

OPTIONS FOR THE CHEMISTRY MAJOR - revised 8/2007

Though it is required only for the ACS Certified A.B. or the A.B. with honors, students pursuing other chemistry degrees are encouraged to enroll in 403 Supervised Research.

ACS Certified Chemistry A.B. (Recommended for grad school)	Chemistry Major A.B. only	Chemistry Minor	Chemistry Major with biochem concentration	Chemistry Major with environ concentration	Chemistry Major with geochem concentration	Chemistry Major with computational minor	Chemistry Major with education minor
Chem. 103 GenChem w/lab	Chem. 103	Chem. 103	Chem. 103	Chem. 103	Chem. 103	Chem. 103	Chem. 103
Chem 104 GenChem w/lab	Chem 104	Chem 104	Chem 104	Chem 104	Chem 104	Chem 104	Chem 104
Chem. 211 OrgChem w/lab	Chem. 211	Chem. 211	Chem. 211	Chem. 211	Chem. 211	Chem. 211	Chem. 211
Chem 212 OrgChem w/lab	Chem 212	Chem 212	Chem 212	Chem 212	Chem 212	Chem 212	Chem 212
Chem 221 PChemQuantum	Chem 221	Chem 221	Chem 221	Chem 221	Chem 221	Chem 221	Chem 221
Chem 222 PChemThermo	Chem 222	Chem 222	Chem 222	Chem 222	Chem 222	Chem 222	Chem 222
		Choose 2 of 4	Choose 3 of 4	Choose 3 of 4	Choose 3 of 4	Choose 3 of 4	Choose 3 of 4
Chem 231 Inorganic	Chem 231	Chem 231	Chem 231	Chem 231	Chem 231	Chem 231	Chem 231
Chem 242 Biochem	Chem 242	Chem 242	Chem 242	Chem 242	Chem 242	Chem 242	Chem 242
Chem 251 Research Methodology I	Chem 251	Chem 251	Chem 251	Chem 251	Chem 251	Chem 251	Chem 251
Chem 252 Research Methodology II	Chem 252	Chem 252	Chem 252	Chem 252	Chem 252	Chem 252	Chem 252
Chem 3xx Chem electives	Chem 3xx	Chem 3xx	Chem 345	Chem 3xx	Chem 322 or 332	Chem/CS 3xx e.g., Math. Modelinq	Chem 3xx
Chem 3xx Chem electives	Chem 3xx	Chem 3xx	Chem 3xx	Geo 302 or 397	Chem 3xx	Chem/CS 3xx of Phys. Phenomena	
Chem 403 Supervised Research I			Phys 101/3	Phys 101/3	Phys 101/3	Phys 101/3	Phys 101/3
Chem 403 Supervised Research II			Phys 102/4	Phys 102/4	Phys 102/4	Phys 102/4	Phys 102/4
Physics 101/103	Phys 101/3		Math 101	Math 101	Math 101	Math 101	Math 101
Physics 102/104	Phys 102/4		Math 102	Math 102	Math 102	Math 102	Math 102
			Math 201	Math 201	Math 201	Math 201	Math 201
Math 101	Math 101						
Math 102	Math 102						
Math 201	Math 201						
			Bio 201** Choose 2 of 3	Geo103	Geo 201	CS 110 or 205	Ed 200
			Bio 375 Equivalent courses	Bio 220	Geo 202	CS 206 (Data Structures)	Ed 210, 225, 240, 250,
			Bio 376** at Haverford may be substituted.	1 Human Landscape Course	Geo 301 or 302	CS 231 (Discrete Math)	260, or 266 Choose 1 of 6
			**recommended Must have a molecular focus.	2 Planning & Policy Courses		CS 212, 225,	Ed 310
						245, 246, Choose 1	Ed 311
						330, 340	2 education-related electives, see education advisor for options.

Requirements for departmental honors:

Complete one of the above major plans.

Maintain a chemistry GPA of 3.4 or better.

Complete two semesters of 403 with a grade > 3.3 each semester.

Participate in research oral/poster presentations.

Write an acceptable thesis, and meet all department deadlines for submission of the thesis.

Complete an additional unit of Chem 3xx (for a total of three 300-level chemistry units).

With department approval, one unit of 300-level work in certain fields may be substituted.