

# BACHELOR OF SCIENCE

## Chemistry Pre-Professional

Name \_\_\_\_\_

2009-11 Catalog

128 Semester hours minimum for graduation with a 2.00 average overall

56 hours from a four-year institution

No Title HRS CR QPTS

**General Studies (2.00 GPA required)**

English				
101	Composition and Rhetoric I	3		
102	Composition and Rhetoric II	3		
203	World Literature I	3		
204	World Literature II	3		
Communication Arts				
101	Fundamentals of Speech	3		
The Arts - Two Courses				
101	Introduction to Visual Arts	3		
101	Introduction to Music	3		
102	Introduction to Theatre	3		
Physical Education				
101	Personal Wellness	2		
Social Sciences				
	Four courses with at least three disciplines represented (SEE CATALOG)	3		
		3		
		3		
		3		
Science and Mathematics				
	Laboratory Science	4		See Major
	Laboratory Science	4		See Major
	Mathematics	3		See Major
	Lab Science or N SC 300C/D; or MATH 105, 201, 211	4,3		See Major
Foreign Language - Required				
	Two courses may be substituted for any two general studies courses except ENGL 101-102 and general Studies Math. Only ONE substitution per discipline. See Catalog. (Not required in teaching fields)			

Chemistry Pre-Professional (2.00 GPA required)				
CHEM 101	General Chemistry I	3		
111	General Chemistry Lab I	1		
102	General Chemistry II	3		
112	General Chemistry Lab II	1		
210	Chemical Laboratory Safety	1		
220	Laboratory Research Methodology	1		
331	Organic Chemistry I	4		
332	Organic Chemistry II	4		
351	Analytical Chemistry	3		
357	Analytical Chemistry Lab	2		
352	Instrumental Analysis	3		
358	Instrumental Analysis Lab	2		
	One course/lab from CHEM 341/347, CHEM 401/407, or CHEM 413/417	3		1,2
PHYS 101 or 201	Introductory Physics or University Physics I	4		
102 or 202	Intermediate Physics or University Physics II	4		
	Two or more credit hours of 300 level or above Physics electives			
MATH 103	College Algebra	3		
104	College Trigonometry	3		
201	Introduction to Programming I	3		
250	Calculus w/Analytic Geometry I	4		

MATH 103 and/or 104 will be waived for students establishing proficiency.

Calculus-based physics recommended if possible.

If PHYS 317 is used as a math elective, it cannot be used as a 300-level physics elective.

**RESIDENCE CREDIT:**

36 hours at Concord

16 of last 32 hours at Concord

Note: In some degree programs, this would be previous to entering professional training.

9 hours in Major, Teaching Fields