

# BACHELOR OF SCIENCE

## Chemistry Comprehensive

Name \_\_\_\_\_

2011-13 Catalog

120 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)			

### 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

Chemistry Comprehensive (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 Laboratory	2		
352	Instrumental Analysis	3		
358	Instrumental Analysis Laboratory	2		
401	Physical Chemistry I	3		
407	Physical Chemistry Laboratory	1		
402	Physical Chemistry II	3		
413	Inorganic Chemistry	3		
417	Inorganic Chemistry Laboratory	1		
PHYS 101 or 201	Introductory Physics or University Physics I	4		
102 or 202	Intermediate Physics or University Physics II	4		
	Two (2) or more hours of 200 level or above in Physics electives	2		
MATH 103	College Algebra	3		
104	College Trigonometry	3		
201	Introduction to Programming I	3		
250	Calculus w/Analytic Geometry I	4		
251	Calculus w/Analytic Geometry II	4		
252	Calculus w/Analytic Geometry III	4		
	3 hours from MATH 202, 215, 303, 320 or PHYS 317	3		

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