

Bloomsburg University - Department of Chemistry
Bachelor of Science in Chemistry Education

Effective Fall 2009

Courses (prerequisites)	Cr	Sem. Taken
Education Courses – 38 credits		
60.204 Ed. Computing or 60.350 Instr. Des. Sys. or 60.351 Virt. Learning Comm.	3	_____
60.206 Teachers, Schools and Society	2	_____
60.251 Psych Found./ Ed.	3	_____
60.291 Prin. Teaching (251)	3	_____
60.311 Classroom Meas. & Assess (45cr,291) (sub 79-301) &	3	_____
65.353 Teaching Science in Sec School (251,291,393,Jr) OR	3	_____
79.320 Field-Based Inclusion Practicum (Junior or Senior)	6	_____
70.275 Linking Assessment (101)	_____	_____
70.358 Methods of Instruction (101)	3	_____
60.406 Multicultural Education	3	_____
60.497-8 Student Teaching	12	_____
Chemistry Courses – 33 credits		
52.115 Chem Sci 1	4	_____
52.116 Chem Sci 2(115)	4	_____
52.231 Organic I (116)	4	_____
52.232 Organic II (231)	4	_____
52.251 Inorganic (116)	3	_____
52.321 Analytical I (116)	3	_____
52.361 Physical Chemistry I (116, 54.212, 53.225)	4	_____
52.341 Biochem (116, 232)	4	_____
52.375 Chem Curric & Teach. Lab (232, Sec Ed, or permission)	3	_____
Physics Courses – 8 credits		
54.211 Gen Physics I	4	_____
54.212 Gen Physics II (211, 53.125 concurrent)	4	_____
Math Courses – 9 credits		
53.125 Calculus 1	3	_____
53.126 Calculus 2 (125)	3	_____
53.225 Calculus 3 (126)	3	_____
Geology Courses – 3 credits		
51.120 Physical Geology	3	_____
51.121 Physical Geo lab (recommended but not required)	1	_____
Other Credits		
Univ Seminar	_____	_____
Precalc 53.113	_____	_____

	Cr	Sem. Taken
Other Specific Courses – 18 credits		
25.103 Public Speaking OR 25.104 Interpersonal Comm.	3	_____
41.105 Environmental Issues & Choices	3	_____
45.211 Principles of Sociology	3	_____
48.101 General Psychology	3	_____
48.212 Adolescence (48.101)	3	_____
70.101 Intro Exceptional Individuals	3	_____
General Education - 50 credits total		
(33 credits already satisfied with other requirements + 17 additional credits)		
Communication - 9 credits		
Composition 1	3	_____
Composition 2 or writing course	3	_____
79.494 ELL Strategies or 72.415 ELL Bas. of Lang. Com.	3	_____
Quantitative - 3 credits		
(Requirement met with 53.125)		
Values - 3 credits		
(Requirement met with 60.406)		
Fitness - 2 credits		
_____	1	_____
_____	1	_____
Diversity - 6 credits		
(Requirement met with 70.101 and 60.406)		
Group A (Humanities) - 12 credits		
(Requirement partly met with 25.103 or 104)	3	_____
_____	3	_____
_____	3	_____
_____	3	_____
Group B (Social Sciences) - 12 credits		
All requirements met with 48.101 and 212, 45.211, 70.101		
Group C (Nat. Sci. & Math) - 12 credits		
All requirements met with required science and math courses		

Suggested Course Sequence for Bachelor of Science in Chemistry Education

Effective Fall 2009

Year	Fall	Spring
1	Pub. Speaking 25-103 or 104 3 Math 53-113/125 3 Chem Sci 1 52-115 4 Gen. Psy 48-101 3 University Seminar 1 Tchrs, Sch, & Soc 60-206 2	Comp I 20-101 3 Math 53-125/126 3 Chem Sci 2 52-116 4 Excpt. Indv. 70-101 3 Ed. Computing 60-204,350,or 351 3
	16	16
2	Organic I 52-231 4 Math 53-126/225 3 Physics I 54-211 4 Technical Writing 09-231 3 Psy. Found/Ed 60-251 3	Organic II 52-232 4 Physics II 54-212 4 Prin. Of Sociology 45-211 3 Prin. Teaching 60-291 3 (Math 225 <u>if necessary</u>) 3
	17	17
3	Physical Chem I 52-361 4 Analytical Chem. I 52-321 3 Soc. Found. 60-393 OR Multi Cult . Ed. 60-394 3 Adolescence Psy. 48-212 3 Environ Issues 41-105 3 Fitness - 1 1	Biochemistry I 52-341 4 Humanities (Group A) 3 Classroom Measurement 60-311 3 Humanities (Group A) 3 Fitness - 2 1 Inorganic Chem. 52-251 3
	17	17
4	Phys. Geology. 51-120 3 Humanities (Group A) 3 Teach Science 65-453 3 Chem Curri & Tchg Lab 52-475 3	Teaching semester away from campus Student Teach 1st 60-497 6 Student Teach 2nd 60-498 6
	12	12

* Total credits = 124

*** 123 total excluding Seminar; 120 if
starting math sequence with Calc 1.**

Humanity, Social Sciences, Communication, Values/Eth/Resp. electives may be interchanged with respect to when taken.

All students must take the following:

- 12 credits Humanities & the Arts
- 12 credits Social & Behavioral Sciences
- 12 credits Natural Sciences & Mathematics
- Chemistry majors will fulfill the 12 credit Science & Math requirement and do not need to take any extra credits in this area unless they choose to as an elective
- 2 credits Fitness & Recreational Skills
- 9 credits Communication
- 3 credits Quantitative Reasoning (Calc 1 applies to this)
- 3 credits Values, Ethics & Responsible Decision Making