

Chemistry & Physics

BS Ed Unified Science in Chemistry, 63-64 hours Certifies 9-12

Suggested Course Outline

Freshman

Freshman Seminar	71-101	1	Composition	10-112	3
Composition	10-111	3	General Chemistry II & Lab	24-116/117	5
General Chemistry I & Lab	24-114/115	4	General Botany & Lab *	04-112/113	4
Calculus *	17-120	4	Computational Methods in Science	40-106	3
Fund of Oral Communication	29-102	3	Laboratory safety	24-135	2
Total		15	Total		17

Summer: Western Civilization II	26-103	3	America – A Historical Survey	33-155	3
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Sophomore

Calculus II	17-121	4	Classical Physics II & Lab (F)	25-230-231	5
Classical Physics I & Lab (F)	25-120/121	5	General Earth Science & Lab	27-114/115	4
General Zoology & Lab	04-114/115	4	<i>Intro to Special Education</i>	66-371	2
<i>Educational Psychology</i>	08-303	3	General Statistics	17-114	3
<i>Sec Teaching Practicum I</i>	65-260	1	Intro to Literature	10-220	3
Total		17	Total		17

Summer: Intro to Government	34-102	3	Humanities/Philosophy		3
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Junior

<i>Adolescent Psychology</i>	08-322	3	Environmental Issues (S)	04-420	3
Historical Geology (F, alt S)	27-212/213	4	<i>Multiculturalism in Education</i>	61-569	3
Quantitative Analysis & Lab (F)	24-322/323	5	Physical Chemistry II	24-534	3
Organic Chemistry I & Lab (F, So)	24-342/343	5	Elem Biochemistry & Lab (S) <u>OR</u>	24-362/363	4-5
<i>Reading in the Content Area</i>	66-353	2	Gen. Biochemistry & Lab (F)	24-562/563	
Total		19	<i>History of Science & Technology (S)</i>	28-550	3
			Total		16-17

Summer: Fine Arts		3			
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Senior

Special Investigations in Chemistry	24-499	1	**Professional Trimester**		
Chemistry Seminar	24-592	1	Classroom Management Seminar	65-521	1
Chemistry Practicum	24-370	1	School & Society	61-462	1
<i>Practicum II</i>	65-360	1			
<i>School and Society</i>	61-461	2	<i>Dir Teaching in the Sec School</i>	65-490	10
<i>Methods in Sec School Science (F)</i>	28-580	3	Total		12
<i>Classroom Management</i>	65-520	2			
Total		11			

- If one has not taken a substantial high school chemistry course, Chemistry 112/113 should be taken prior to Chemistry 114/115. Furthermore, student needs to have mastered Algebra II in high school.
- Without two years of biology in high school, Biology 102/103 needs to be taken prior to Biology 112/113 or 114/115.
- Without an ACT of 27, students must first complete 17-118 and 17-119 or take 17-117. Students with a 27 or above on the Mathematics ACT subscore are eligible to begin with Calculus I (4 more elective hours are required).

(Please note this outline does not supersede the requirements listed in the Northwest Undergraduate Student Catalog nor does it constitute a contractual arrangement, rather it is for information only. It is the student's responsibility to be aware of and to meet all University and Department requirements as listed in the catalog.

Fall 2008