

Chemistry & Physics

BS Ed Chemistry Education

Suggested Course Outline

Freshman

Freshman Seminar	71-101	1
Composition I	10-111	3
General Chemistry I & Lab	24-114/115	4
Precalculus (Math ACT under 27)	17-117	4
Computational Methods in Science	40-106	3
Total		15

Composition II	10-112	3
General Chemistry II & Lab	24-116/117	5
General Biology & Lab	04-102/103	4
Calculus I	17-120	4
Laboratory Safety (S)	24-135	2
Total		18

Summer: Western Civilization II 26-103 3

America – A Historical Survey 33-155 3

Sophomore

Calculus II	17-121	4
Fund of Classical Physics I & Lab	25-120/121	5
Organic Chemistry I & Lab	24-342-343	5
Educational Psychology	08-303	3
Sec Teaching Practicum I	65-260	1
Total		18

Intro to Lit	10-220	3
General Statistics I	17-114	3
Intro to Special Education	66-371	2
Intro to American Government	34-102	3
Fund of Oral Communication	29-102	3
Total		14

Summer: Fine Arts 3

General Earth Science & Lab 27-114/115 4

Junior

Reading in the Content Area	66-353	2
Adolescent Psychology	08-322	3
Special Investigations in Chemistry	24-499	1
Quantitative Analysis & Lab (F)	24-322/323	5
Physical Chemistry I & Lab (F)	24-532/533	4
Total		15

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Multiculturalism in Education	61-569	3
Environmental Issues (S)	04-420	3
History of Science and Technology	28-550	3
Physical Chemistry II & Lab (S)	24-534/535	4
Organic Chemistry II & Lab (S)	24-334/345	(5)
Total		13-18

Summer: Social Studies 3

Senior

General Biochemistry & Lab	24-562/563	5
Chemistry Seminar	24-592	1
Chemistry Practicum	24-370	1
Practicum II	65-360	1
School and Society	61-461	2
Methods in Sec School Science (F)	28-580	3
Classroom Management	65-520	2
Total		15

Professional Trimester		
Classroom Management Seminar	65-521	1
School & Society Seminar	61-462	1
Dir Teaching in the Sec School	65-490	10
Total		12

- 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).

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(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.