

Chemistry & Physics

BS Comprehensive Physics 52 hours, no minor required

Suggested Course Outline Created by EC_Plus

Freshman

Freshman Seminar	71-101	1	Composition	10-112	3
Composition	10-111	3	Calculus I	17-120	4
General Chemistry I & Lab	25-114/115	4	Biological Science & Lab		4
Precalculus (ACT below 27)*	17-117	4	America – A Historical Survey	33-155	3
<u>Social Science</u>		<u>3</u>	<u>Fine Art</u>		<u>3</u>
Total		15	Total		17

Sophomore

Calculus II	17-121	4	Computational Methods in Science	40-106	3
Classical Physics I & Lab	25-120/121	5	Multivariate Calculus	17-321	4
Fund of Oral Communication	29-102	3	Classical Physics II & Lab	25-230/231	5
<u>Intro to America Government</u>	<u>34-102</u>	<u>3</u>	<u>General Psychology</u>	<u>08-103</u>	<u>3</u>
Total		15	Total		15

Junior

Computer Programming	44-141 or 44-149	3	Classical Mechanics I & Lab (So)	25-320/321	4
Differential Equations (F)	17-361	3	Elective*		3
Electricity & Magnetism & Lab (Fe)	25-330/331	4	Computational Physics (So)	25-450/451	4
Intro to Literature	10-220	3	<u>Humanities/Philosophy</u>		<u>3</u>
<u>Institutional Requirement-Multicultural</u>		<u>3</u>	Total		14
Total		16			

Senior

Electronics & Lab (Fo)	25-332/333	4	Modern Physics II (Se)	25-352	3
Intro to Modern Physics & Lab (Fo)	25-350/351	4	Physics Practicum OR	25-489	
Physics Elective (above 300 level)		3	Special Investigation in Physics OR	25-499	
<u>Electives*</u>		<u>5</u>	Select. Adv. Topics Physics OR	25-599	2
Total		16	Physics Undergrad Research	25-479	
			<u>Electives*</u>		<u>10</u>
			Total		15

- 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).
- *Forty semester hours of courses numbered above 300 are required. 35 hours are defined in this major. 124 hours

Fo Fall Odd Years

Fe Fall Even Years

So Spring Odd Years

Se Spring Even

(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.

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