

ACS Certified Chemistry Major: Two-Year Completion Plan

The following table outlines a two-year pathway for completing a major in Chemistry.

CHEM Scheduling Plan		
Year	UMW Course	Major Credits
1 st Year/2 nd Year	CHEM111 ^(a)	4
	CHEM112 ^(b)	4
	CHEM211 ^(c)	4
	CHEM212 ^(c)	4
	PHYS101 or 105 ^(d)	-
	PHYS102 or 106 ^(d)	-
	MATH121	-
	MATH122	-
Fall 3rd Year		
Fall 3 rd Year	CHEM253 ^(c)	4
	CHEM317 ^(e, f)	3
	CHEM319 ^(e, f)	1
	CHEM383	3
	1 or 2 electives or research ^(g)	-
Spring 3rd Year		
Spring 3 rd Year	CHEM254 ^(c)	4
	CHEM384	3
	1 or 2 electives or research ^(g)	-
TOTAL		34
Fall 4 th Year	CHEM387	2
	CHEM423	4
Spring 4th Year		
Spring 4 th Year	CHEM343 ^(e, h)	3
	CHEM345 ^(e, h)	1
	CHEM388	2
	CHEM453	2
TOTAL		48
<small>(a) Placement test required if taken at UMW. AP test score of 4 counts as 111 credit</small>		
<small>(b) AP test score of 5 counts as 111 and 112 credit</small>		
<small>(c) For pre-medical/health tracks, CHEM211 and 212 are strongly recommended in the sophomore year. Otherwise, it is possible to take 253/254 in the sophomore year and 211/212 in the junior year.</small>		
<small>(d) MATH121 co-requisite for PHYS105; MATH122 co-requisite for PHYS106</small>		
<small>(e) CHEM 317/319 and 343/345 may be taken either 3rd or 4th year depending on scheduling</small>		
<small>(f) CHEM317 co-requisite for CHEM319</small>		
<small>(g) Electives include biochemistry, inorganic chemistry, environmental chemistry and their optional labs</small>		
<small>(h) CHEM343 and 345 offered in alternating spring semesters</small>		

For further information or detail, contact:
 Dr. Charles Sharpless, Jepson 341
csharp@umw.edu, (540) 654-1405