

UNIVERSITY OF NORTH DAKOTA---DEPARTMENT OF CHEMISTRY
Curriculum for the B.S. with Major in Chemistry (non-ACS Degree)
Biochemistry Option

REQUIRED 125 credits (36 of which must be numbered 300 or above and 60 of which must be from a 4-year institution) including:

I. General Education Requirements (see University GER listing).

II. The Following Curriculum:

Major Requirements - 36 hours of Chemistry including:

FRESHMAN YEAR

		Fall	Spring
Chem 121, 121L	General Chemistry I & Lab	(4)	
Chem 122, 122L	General Chemistry II & Lab		(4)
Engl 110	Composition I	(3)	
¹ Engl 125	Technical and Business Writing		(3)
² Math 146	Applied Calculus I		(3)
Electives (Biology and/or GERs)		(9)	(6)
Total Hours		16	16

SOPHOMORE YEAR

Chem 333	Intro Env. Clin. Forensic Chem. Analysis	(4)	
Chem 341, 341L	Organic Chemistry I & Lab	(5)	
Chem 342, 342L	Organic Chemistry II & Lab		(5)
Phys 211, 211L		(4)	(4)
Phys 212, 212L	College Physics I & II & Lab		
General Education Electives		(3)	(6)
Total Hours		16	15

JUNIOR YEAR

Chem 466	Survey of Physical Chemistry		(4)
BMB 301	Biochemistry Lecture		(3)
Level II Language		(4)	(4)
³ Electives		(12)	(5)
Total Hours		16	16

SENIOR YEAR

Chem 467	Survey of Physical Chem Laboratory	(2)	
BMB 401	Biochem of Protein and Info Flow	(3)	
BMB 403	Advanced Biochemistry Laboratory	(2)	
³ Electives		(8)	(15)
Total Hours		15	15

¹ With permission of the advisor, a student may substitute English 120 if English 125 is not available.

² If a student is not ready for Math 146, Math 103 should be taken in the first semester. If a student would like the option to change into the B.S. in Chemistry or the B.S. with Major in Chemistry with emphasis for the Physical Science Option at a later date, be aware that Math 165, 166, and 265 are required. If a student who begins either the B.S. in Chemistry or the B.S. with Major in Chemistry with emphasis for the Physical Science Option wishes to change to the Biochemistry Option, Math 165 will substitute for Math 146.

³ Suggested electives are courses in Physics, Mathematics, Biochemistry, Biology, Languages, Computer Science, Chemical Engineering, Business Management, and Speech.