Biochemistry and Molecular Biology

Department Information

- Department Web Site: www.ndsu.edu/chemistry/ (http://www.ndsu.edu/chemistry/)
- Credential Offered:
 B.S.; B.A.; Minor
- Official Program Curriculum: catalog.ndsu.edu/undergraduate/program-curriculum/biochemistry-molecular-biology/ (http://catalog.ndsu.edu/undergraduate/program-curriculum/biochemistry-molecular-biology/)

Sample Program Guide

IMPORTANT DISCLAIMER: This guide is not an official curriculum. This guide is a sample four-year degree plan of how students might plan this major with other degree requirements to complete their education in four years. Student plans will vary from this sample due to a variety of factors, such as, but not limited to, start year, education goals, transfer credit, and course availability. To ensure proper degree completion, enrolled students should utilize Degree Map (https://www.ndsu.edu/registrar/degreemap/) and Schedule Planner (https://www.ndsu.edu/onestop/degree-map-and-planning/) in Campus Connection and consult regularly with academic advisors to ensure graduation requirements are being met.

Freshman				
Fall	Credits	Spring	Credits	
BIOL 150 & 150L		4 MATH 166	4	
CHEM 121 & CHEM 160		4 ENGL 120 (Communication Gen Ed) 3		
ENGL 110 (Communication Gen Ed)		3 CHEM 122 & CHEM 161	4	
MATH 165 (Quant. Reasoning Gen Ed)		4 BIOL 151	3	
		15	14	
Sophomore				
Fall	Credits	Spring	Credits	
COMM 110 (Communication Gen Ed)		3 PHYS 252 & 252L (Science & Tech Gen Ed)	5	
CHEM 341		3 CHEM 342	3	
CHEM 353		1 CHEM 354	2	
BIOL 315		3 Humanities/Fine Arts and Global Perspectives Gen Ed	3	
PHYS 251 & 251L (Science & Tech Gen Ed)		5 Social & Beh Sci and Cultural Diversity Gen Ed	3	
		15	16	
Junior				
Fall	Credits	Spring	Credits	
BIOC 460		3 CHEM 380	1	
BIOC 460L		1 BIOC 461	3	
CHEM 431		3 BIOC 474	3	
MICR 350 & 350L		5 STAT 330	3	
ENGL 321 or 324 (Communication Gen Ed)		3 300-400 Level Science Elective ¹	3	

Biochemistry and Molecular Biology

		300-400 Level Science	e Elective ¹	3
15				
Senior				
Fall	Credits	Spring	Credits	
BIOC 473		4 BIOC 487		3
BIOC 483		3 CHEM 491		2
CHEM 465		4 300-400 Level Science	e Electives ¹	3
Humanities or Social Science College Requirement ²		3 Humanities or Social College Requirement		6
		Wellness Gen Ed		2
		14		16

Total Credits: 121

1

2

Courses in BIOL, BOT, ZOO, CHEM, CSCI, MICR, PSCI, PHYS, PPTH, or STAT. No more than 6 credits from one prefix may apply. Research credits (CHEM 494/BIOC 494) may count towards 3 of these credits.

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Humanities and Social Sciences may be fulfilled by any course having the following prefix: ADHM, ANTH, ARCH, ART, CJ, CLAS, COMM, ECON, ENGL, FREN, GEOG, GERM, HDFS, LA, LANG, MUSC, PHIL, POLS, PSYC, RELS, SOC, SPAN, THEA, WGS, or any course from the approved list of general education in the humanities & fine arts and the social & behavioral sciences categories (A & B). These credits must come from outside the department of the student's major.