

Advising Course Plan - Molecular Biology Major - Veterinary School Interest

This plan indicates an effective way to earn a Bachelor of Science degree in Molecular Biology and to complete the prerequisites for most veterinary programs (although these can differ depending on the vet school).

First Year

Fall		
BIOL 142P	Introductory Biology II: Animal and Plant Physiology	1
FSEM 100	First Year Seminar	1
MATH 130 ¹	Calculus I with Review Part I	1
General Education requirement		1
	Term Units	4
Spring		
BIOL 141P	Introductory Biology I: Biochemistry, Cell Biology and Molecular Genetics	1
General Education requirement		1
MATH 131Q ¹	Calculus I with Review Part 2	1
General Education requirement		1
	Term Units	4

Second Year

Fall		
BIOL 243Q	Biostatistics	1
CHEM 141P	General Chemistry I	1
PHYS 121P ²	College Physics I	1
General Education requirement		1
	Term Units	4
Spring		
General Education requirement		1
CHEM 142P	General Chemistry II	1
PHYS 122P ²	College Physics II	1
Elective		1
	Term Units	4

Third Year

Fall		
BIOL 302 ³	Genetics	1
CHEM 201	Organic Chemistry I	1
Junior Seminar ⁴		1
Elective		1
	Term Units	4
Spring		
BIOL 420	Molecular Biology	1
CHEM 301	Organic Chemistry II	1
BIOL 497	Research Proposal	0.5
CHEM 204 ⁵	Biochemistry I	1
Elective		0.5
	Term Units	4

Fourth Year

Summer I

During the summer between Third Year and Fourth Year or early in year 4, the GRE needs to be taken.

	Term Units	0
Fall		
BIOL 301 ⁶	Microbiology	1
BIOL 498	Senior Project I	1
Elective ⁷		1
Elective		1
	Term Units	4
Spring		
BIOL 499	Senior Project II	1

Elective ⁷	1
Elective	1
Elective	1
Term Units	4

Total Unit: 32

- 1 The timing of the Math course is not critical; it can be taken at a later time. Some students may place into, and wish to take, MATH 141Q instead of MATH 130 and MATH 131Q.
- 2 The Physics courses can be taken later.
- 3 BIOL 302, BIOL 420, and the other BIOL 300- or 400-level course can be taken in any order.
- 4 The Junior Seminar can be taken in the spring instead of the fall.
- 5 CHEM 204 can be taken in year 4.
- 6 Can be taken the previous year.
- 7 Other recommended upper division courses include: BIOL 301, BIOL 314, BIOL 315, BIOL 320, BIOL 401, BIOL 409, BIOL 410, BIOL 415, BIOL 422, and CHEM 304.