

## COURSE CHECKLIST FOR PRE-VETERINARY SCIENCE MAJOR

<b>University Gen Ed Requirements</b>		
	College Writing (Fall or Spring)	ENGLWRIT 112
	Arts/Literature (AL or AT)- must be 4 credits	4 credit course
	Historical Studies (HS)- must be 4 credits	4 credit course
	Social/Behavioral Sciences (SB)- must be 4 credits	4 credit course
	Plus one additional course in (AL, AT, HS, SB, SI or I)	ANIMLSCI 260 fulfills SI
	Diversity "U"- can be combined with (AL,AT,HS,SB)	
	Diversity "G"- can be combined with (AL,AT,HS,SB)	
	Integrative Experience - IE, must be taken in VASCI dept. at UMass Good Intentions Problem-Based Learning in Advanced Animal Health (Prereq ANIMLSCI 103, 200, 220, 311, and 372) Honors Thesis + Integrating Learning and Research	ANIMLSCI 494GI (spring) ANIMLSCI 494PI (fall)  ANIMLSCI 499Y+499T+ ANIMLSCI 494TI (spring)
<b>Basic Science &amp; Math Requirements</b>		
	Introductory Biology I	BIOLOGY 151*
	Introductory Biology II (prereq. minimum C in BIOL 151)	BIOLOGY 152*
	Biology Lab	BIOLOGY 153*
	General Chemistry I	CHEM 111*
	General Chemistry II (prereq. Chem 111, minimum C-)	CHEM 112*
	Organic Chemistry (prereq. Chem 112, minimum C-)	CHEM 261*
	Organic Chemistry (prereq. Chem 261, minimum C-)	CHEM 262
	Organic Chemistry lab (prereq concurrent enrollment in Chem 262 or previous C- or better in Chem 262)	CHEM 269
	Biochemistry (prereq. Chem 250 or 261 or 265, minimum C-) Biochem 423 (fall) & 424 (spring) are recommended for some vet schools	BIOCHEM 420 or BIOCHEM 423
	Statistics (Math R2 requirement)	STATISTC 111, STATISTC 240 or RESECON 212
	Calculus	MATH 127*
	Microbiology (prereq. CHEM 261 or 250 or current enrollment)	MICROBIO 310
	Microbiology Lab – ANIMLSCI 366 (prereq. Biology 152 & 153 with a grade of C or better, MICROBIO 310 or concurrent enrollment.) <b>OR</b> MICROBIO 265 (prereq. MICROBIO 310, dept. consent required)	ANIMLSCI 366 or MICROBIO 265
	Introductory Physics I and Lab	PHYSIC 131
	Introductory Physics II and Lab	PHYSIC 132
<b>Animal Science Core</b>		
	Introduction to Animal Science (Fall), external or internal transfer students may substitute higher-level elective	ANIMLSCI 101
	Introduction to Animal Management (Spring) prereq. ANIMLSCI 101, minimum C	ANIMLSCI 103*
	Animal Cellular and Molecular Bio (Spring) prereq. Bio 151 min. C, CHEM 111 min. C-	ANIMLSCI 200* or BIOLOGY 285 or BIOCHEM 275
	Anatomy/Physiology (Fall) prereq. BIOL 151 minimum C	ANIMLSCI 220*
	Animal Care & Welfare (Fall) Gen Ed SI	ANIMLSCI 260
	Junior writing (Fall or Spring)	NATSCI 387
	Animal Genetics (Fall) ANIMLSCI 311 prereq. Biology 151, minimum C; Biology 152, minimum C; and ANIMLSCI 200, Biochem 275, or Biology 285, minimum C-. <b>OR</b> BIOLOGY 283 prereq. Biology 151 AND Biology 152 minimum C for both	ANIMLSCI 311 or BIOLOGY 283
	Animal Nutrition & Feeding (Fall) prereq. ANSCI 220	ANIMLSCI 332
	Infection and Immunity (Spring) prereq. ANSCI 200, BIOL 285 or BIOCHEM 275	ANIMLSCI 572
	Reproductive Physiology (Spring) prereq. AnSci 220	ANIMLSCI 521

**NOTE:** \*Ten science courses used to calculate Pre-Vet major eligibility. Credit-weighted GPA must be greater than or equal to 2.700 (=B-) in order to graduate as a Pre-Veterinary Science major. Students with 10-course GPAs less than 2.700 may graduate as Animal Science majors.