

B.S. in Biology: Pre-Vet - CWILT

First Year					
Fall	Credits	Interim	Credits	Spring	Credits
BIO124/BIO124D Integrative Biology: Cells, Genes, Change/Lab or BIO128/BIO128D Integrative Biology: Metabolism, Energy, Biodiversity/Lab	4	GES160 Inquiry Seminar	3	BIO124/BIO124D Integrative Biology: Cells, Genes, Change/Lab or BIO128/BIO128D Integrative Biology: Metabolism, Energy, Biodiversity/Lab	4
CHE113/CHE113D General Chemistry I/Lab or CHE208/CHE208D Accelerated General Chemistry I/Lab	4			CHE214/CHE215 General Chemistry II/Lab	4
PSY230M Intro to Statistical Methods & Experimental Design	4			GES130 Christianity & Western Culture	4
GES140 Introduction to Wellbeing	3			MAT123M Precalculus or MAT124 Calculus 1	3-4
	15		3		15-16
Second Year					
Fall	Credits	Interim	Credits	Spring	Credits
BIO218 Biology in a Changing World	3	Contemporary Western Life and Thought (L) course	3	CHE226/CHE227 Organic Chemistry II/Lab	4
CHE224/CHE225 Organic Chemistry I/Lab	4			THE201 Christian Theology	3
BIB101 Introduction to the Bible	3			GES125 Introduction to the Creative Arts	4
Leisure and Lifetime Sports (Q) course	1			BIO328/BIO329 Invertebrate Biology/Lab	4
Artistic Experience (A) course	0-3				
	11-14		3		15
Third Year					
Fall	Credits	Interim	Credits	Spring	Credits
BIO399 Introduction to Research	1	World Cultures (U) course	3	BIO376/BIO377 Animal Physiology	4
BIO368/BIO369 Structure and Development of Vertebrates	4			PHY206/PHY207 Introductory Physics II/Lab	4
PHY202/PHY202D Introductory Physics I /Lab	4			Comparative Systems (G) course	3
Science, Technology and Society (K) course	3			Interpreting Biblical Themes (J) course	3
Second Language (S) course ¹	4			BIO481 or BIO496 Internship in Biology or Biology Research ²	1-3
	16		3		15-17
Fourth Year					
Fall	Credits	Interim	Credits	Spring	Credits
BIO495 Biology Seminar	2	Interim off or elective	0-4	BIO499 Biology Symposium	0
CHE304/CHE305 Essentials of Biochemistry/Lab	4			BIO481 or BIO497 Internship in Biology or Advanced Biology Research	1-3
BIO332/BIO333 Genetics/Lab	4			BIO234/BIO235 Microbiology/Lab	4
BIO346/BIO347 Animal Behavior/Lab or BIO338/BIO339 Endocrinology/Lab or BIO384/BIO387 Immunology/Lab	4			or BIO354/BIO355 Cell Biology/Lab or BIO362/BIO363 Developmental Biology/Lab or BIO326/BIO327 Histology/Lab	4
Contemporary Christian Issues (P) course	3			Cross Cultural Experience (Z) course	4
	17		0-4		13-15
Total Credits 126-138					

- Students must complete through the second semester of a first-year language course or equivalent.
- May be taken fall Senior year.

This program assumes the student will use BIO124/BIO124D to meet the general Laboratory Science requirement.

Most financial aid packages stipulate 12 credits/semester; Minnesota state grants are reduced when credit falls below 15 credits/semester. (Interim may be split between fall & spring for the state grant purposes only.)
between fall & spring for the state grant purposes only.)

Pre-requisite courses for most veterinary medical school programs

Recommended courses for Veterinary medical school programs

Revised: 8.28.2020

B.S. in Biology: Pre-Vet - Humanities

First Year					
Fall	Credits	Interim	Credits	Spring	Credits
BIO124/BIO124D Integrative Biology: Cells, Genes, Change/Lab or BIO128/BIO128D Integrative Biology: Metabolism, Energy, Biodiversity/Lab	4	GES147 Humanities II: Renaissance & Reformation	4	BIO124/BIO124D Integrative Biology: Cells, Genes, Change/Lab or BIO128/BIO128D Integrative Biology: Metabolism, Energy, Biodiversity/Lab	4
CHE113/CHE113D General Chemistry I/Lab or CHE208/CHE208D Accelerated General Chemistry I/Lab	4			CHE214/CHE215 General Chemistry II/Lab	4
GES145 Humanities I: Greco-Roman through Middle Ages	4			GES244 Humanities III: European Enlightenment and American Culture to 1877	4
GES140 Introduction to Wellbeing	3			BIB101 Introduction to the Bible	3
	15		4		15

Second Year					
Fall	Credits	Interim	Credits	Spring	Credits
BIO218 Biology in a Changing World	3	GES160 Inquiry Seminar	3	CHE226/CHE227 Organic Chemistry II/Lab	4
CHE224/CHE225 Organic Chemistry I/Lab	4			BIO328/BIO329 Invertebrate Biology/Lab	4
GES246 Humanities IV: Modern and Contemporary Western Culture	4			PSY230M Intro to Statistical Methods & Experimental Design	4
Leisure and Lifetime Sports (Q) course	1			Second Language (S) course ¹	4
Artistic Experience (A) course	0-3				
	12-15		3		16
Third Year					
Fall	Credits	Interim	Credits	Spring	Credits
BIO399 Introduction to Research	1	Comparative Systems (G) course	3	Cross-Cultural Experience (Z) course	3-4
BIO368/BIO369 Structure and Development of Vertebrates	4			PHY206/PHY207 Introductory Physics II/Lab	4
PHY202/PHY202D Introductory Physics I /Lab	4			Interpreting Biblical Themes (J) course	3
World Cultures (U) course	3			BIO376/BIO377 Animal Physiology	4
MAT123M Precalculus or MAT124 Calculus 1	3-4			BIO481 or BIO496 Internship in Biology or Biology Research ²	1-3
	15-16		3		15-18
Fourth Year					
Fall	Credits	Interim	Credits	Spring	Credits
BIO495 Biology Seminar	1	Interim off or elective	0-4	BIO499 Biology Symposium	0
Science, Technology and Society (K) course	3			BIO481 or BIO497 Internship in Biology or Advanced Biology Research	1-3
CHE304/CHE305 Essentials of Biochemistry/Lab	4			BIO234/BIO235 Microbiology/Lab	4
BIO332/BIO333 Genetics/Lab	4			BIO354/BIO355 Cell Biology/Lab	
BIO346/BIO347 Animal Behavior/Lab or BIO338/BIO339 Endocrinology/Lab or BIO384/BIO387 Immunology/Lab	4			or BIO362/BIO363 Developmental Biology/Lab or BIO326/BIO327 Histology/Lab	8
	16		0-4	Contemporary Christian Issues (P) course	3
					16-18
Total Credits 130-143					

1. Students must complete through the second semester of a first-year language course or equivalent.

2. May be taken fall Senior year.

This program assumes the student will use BIO124/BIO124D to meet the general Laboratory Science requirement.

Most financial aid packages stipulate 12 credits/semester; Minnesota state grants are reduced when credit falls below 15 credits/semester. (Interim may be split between fall & spring for the state grant purposes only.)

Pre-requisite courses for most veterinary medical school programs

Recommended courses for veterinary medical school programs