

AVS Bachelor of Science Degree (Animal Sciences Concentration)
SCHEDULE OF COURSES (120 credits)

	<u>Credits</u>		<u>Credits</u>
FALL ** 1st year**		SPRING** 1st year**	
AVS 145 - Animal Science	4	BIO 208 – Anatomy & Physiology	4
BIO 100 - Basic Biology	4	CHY 122/124 - Intro. Chem. II	4
CHY 121/123 - Intro. Chem. I	4	ENG 101 – College Composition	3
MAT 122 - Pre-Calculus	4	MAT 232 – Prin. Of Stat. Inference	3
NFA 117 - Issues and Opportunities	<u>1</u>	HUM/SOC Elective	<u>3</u>
	17		17
FALL** 2nd year**		SPRING ** 2nd year**	
BIO 377 - Medical Physiology	3	AVS 200 - Topics in Animal Science	1
ECO 100 - Intro to Economics OR		CMJ 103 - Fund. Public Communication	3
ECO 254 - Small Bus. Econ/Man.	3	HUM/SOC Elective	3
Career Enhancement Elective	<u>3</u>	Career Enhancement Elective	<u>3</u>
	9		10
FALL** 3rd year**		SPRING ** 3rd year**	
AVS 455 - Animal Nutrition	4	AVS 437 - Animal Diseases	3
ENG 317 - Technical Writing	3	BIO 350 - Prin. & Appl. Of Genetics	3
Career Enhancement Elective	3	Career Enhancement Elective	3
General Elective	<u>3</u>	Ethics GenEd (if needed)	<u>0-3</u>
	13		9-12
FALL ** 4th year**		SPRING ** 4th year**	
AVS 401 - Senior Paper I	2	AVS 402 - Senior Paper II	2
AVS 480 - Physiology of Repro.	3	AVS 466 - Feeding Dairy Cattle	2
HUM/SOC Elective	3	HUM/SOC Elective	3
Career Enhancement Elective	3	Career Enhancement Elective	<u>3</u>
General Electives (to ensure			10
120+ credits for graduation)	<u>0-3</u>		
	11-14		
Complete during 2nd to 4th years (“S” = Spring; “F” = Fall; “B” =Both semesters)			
Non-Ruminant Species (choose three or more credits : AVS 196 (B), AVS 243 (F), AVS 249 (B), AVS 333 (F), AVS 393 (F) or SMS 211 (F))			3
Career-Related Experience (choose a total of four credits : AVS 371-Dairy (B); AVS 396-Private Industry (B); or AVS 397-Equine (B))			4
Species-Specific Management (choose two classes : AVS 203 Equine (S); AVS 346 Dairy (F); or AVS 349 Livestock (S))			6
Witter Hands-on Management (choose one class : AVS 303 - Horse Barn Co-op (B); or AVS 347 - Dairy Management Co-op (B))			2
Advanced Topics (choose two classes : AVS 351 (S); AVS 353 (S); AVS 405 (S); AVS 433 (S); AVS 443 (F); AVS 461 (F); SMS 420 (F); SMS 421 (S))			<u>6</u>
			21

AVS Bachelor of Science Degree (Pre-Veterinary Concentration)
SCHEDULE OF COURSES (123-126 credits)

	<u>Credits</u>		<u>Credits</u>
FALL ** 1st year**		SPRING** 1st year**	
AVS 145 - Animal Science	4	ENG 101 – College Composition	3
BIO 100 - Basic Biology	4	BIO 208 – Anatomy & Physiology	4
CHY 121/123 - Intro. Chem I	4	CHY 122/124 - Intro. Chem II	4
MAT 122 - Pre-Calculus	4	MAT 126 – Calculus I	4
NFA 117 - Issues and Opportunities	<u>1</u>	Ethics GenEd requirement (if needed)	<u>0-3</u>
	17		15-18
FALL** 2nd year**		SPRING ** 2nd year**	
ECO 100 - Intro to Economics or		CMJ 103 - Fund. Public Communication	3
ECO 254 - Small Bus. Econ/Man.	3	AVS 200 - Topics in Animal Science	1
BIO 377 - Medical Physiology	3	MAT 232 - Intro to Statistics	3
CHY 251/253 - Organic Chemistry I	5	CHY 252/4 - Organic Chemistry II	5
HUM/SOC Elective	<u>3</u>	HUM/SOC Elective	<u>3</u>
	14		15
FALL** 3rd year**		SPRING ** 3rd year**	
BIO 462 - Principles of Genetics	3	AVS 437 - Animal Diseases	3
AVS 455 - Animal Nutrition	4	ENG 317 - Technical Writing	3
PHY 111 – General Physics I	4	PHY 112 – General Physics II	<u>4</u>
HUM/SOC Elective	<u>3</u>		15
	14		
FALL ** 4th year**		SPRING ** 4th year**	
AVS 480 - Physiology of Repro.	3	AVS 402 - Senior Paper II	2
AVS 401 - Senior Paper I	2	AVS 466 - Feeding Dairy Cattle	2
BMB 300/305 General Microbiology	5	BMB 322/323 Biochemistry lecture / lab	<u>4</u>
HUM/SOC Elective	<u>3</u>		8
	13		
** Complete during 2nd to 4th years (“S” = Spring; “F” = Fall; “B” =Both semesters) **			
Non-Ruminant Species (choose at least three credits : AVS 196 (B), AVS 243 (F), AVS 249 (B), AVS 333 (F), AVS 393 (F) or SMS 211 (F))			
			3
Species-Specific Management (choose two classes : AVS 203 Equine (S); AVS 346 Dairy (F); or AVS 349 Livestock (S))			
			6
Witter Hands-on Management (choose one class : AVS 303 - Horse Barn Co-op (B); or AVS 347 - Dairy Management Co-op (B))			
			2
Advanced Topics (choose two classes : AVS 351 (S); AVS 353 (S); AVS 405 (S); AVS 433 (S); AVS 443 (F); AVS 461 (F); SMS 420 (F); SMS 421 (S))			
			<u>6</u>
			17

Note 1: Career-Related Experience (AVS 371, AVS 396, or AVS 397; 4 credits) is no longer required for students who complete **ALL** of the requirements in the Pre-Vet Concentration).

Note that most of our recent graduates who were accepted to colleges of veterinary medicine had accumulated at least 300 hours of experience under the supervision of a veterinarian.

Note 2: Several American Veterinary Medical Association-accredited veterinary colleges require BIO 335 (Comp. Vert. Anatomy; 4 credits) and/or BIO 480 (Cell Biology; 4 credits). Check the specific requirements of the veterinary colleges that are on your preferred list.