

## Advising Form for Undergraduates in the Animal and Veterinary Sciences Major

Student Name: \_\_\_\_\_ I.D. #: \_\_\_\_\_ Matriculated: \_\_\_\_\_

Course	Credits	Semester	Grade
<b>1. First Year Seminar</b>			
NFA 117 Issues and Opportunities	1 _____	_____	_____
<b>2. Foundation Course</b> (Note: A "C-" or better grade is required for AVS 145)			
AVS 145 Animal Science	4 _____	_____	_____
<b>3. Communications (6 credits)</b>			
ENG 101 College Composition (C or better required)	3 _____	_____	_____
ENG 317 Technical Writing	3 _____	_____	_____
<b>4. Humanities and Social Sciences</b>			
Ethics Requirement (3 credits)			
<input type="checkbox"/> AVS 145, <input type="checkbox"/> AVS 249, <input type="checkbox"/> AVS 346, <input type="checkbox"/> AVS 349	(0) _____	_____	_____
<b>or</b> _____	3 _____	_____	_____

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### **5. Gen Ed Categories - minimum of 18 credits** (Courses MUST include all five of the following categories)<sup>1</sup> :

#### A. Western Cultural Traditions

_____	_____	_____	_____
_____	_____	_____	_____

#### B. Social Contexts and Institutions

ECO 100 – Introduction to Economics **or**

ECO 254 – Small Business Econ. and Management	3 _____	_____	_____
CMJ 103 Fundamentals of Public Communications	3 _____	_____	_____

_____	_____	_____	_____
_____	_____	_____	_____

#### C. Cultural Diversity and Intern. Perspectives

_____	_____	_____	_____
_____	_____	_____	_____

#### D. Population and the Environment

_____	_____	_____	_____
_____	_____	_____	_____

#### E. Artistic and Creative Expression

_____	_____	_____	_____
_____	_____	_____	_____

**Total Gen Ed credits:**

\_\_\_\_\_

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<sup>1</sup> Courses should be chosen to address the following five areas: Western Cultural Tradition, Social Context and Institutions, Cultural Diversity and Intern. Perspectives, Population and the Environment, Artistic and Creative Expression. An individual course may satisfy requirements in more than one sub-category which will allow students more freedom to choose courses to fulfill the 18 cr. Requirement.

<b>6. Quantitative Skills (7 credits)</b>		<b>Credits</b>	<b>Semester</b>	<b>Grade</b>
MAT 122 Algebra and Trigonometry, Pre-calculus		4 _____	_____	_____
MAT 232 Prin. of Statistical Inference		3 _____	_____	_____
<b>7. General Science Courses (22 credits)</b>				
BIO 100 Basic Biology		4 _____	_____	_____
BIO 208 Anatomy and Physiology		4 _____	_____	_____
CHY 121/123 Intro to Chemistry		4 _____	_____	_____
CHY 122/124 Molecular Basis of Chemical Change		4 _____	_____	_____
BIO 377 Medical Physiology		3 _____	_____	_____
BIO 462 Principles of Genetics (required for the Pre-Vet concentration)				
or BIO 350 Concepts and Applications of Genetics (required for the AVS concentration)		3 _____	_____	_____
<b>8. Required Animal Science and Biology Core Courses (13 credits):</b>				
<i>Note: A "C-" or better grade is required for every course in this section:</i>				
AVS 200	Topics in Animal & Veterinary Science	1 _____	_____	_____
AVS 437	Animal Diseases	3 _____	_____	_____
AVS 455	Animal Nutrition	4 _____	_____	_____
AVS 466	Feeding Dairy Cattle	2 _____	_____	_____
AVS 480	Physiology of Reproduction	3 _____	_____	_____
<b>9. Non-Ruminant Species</b>				
<u>Choose at least three credits in this section:</u>				
AVS 196	Intro to Equine Cooperative	1 _____	_____	_____
AVS 243	Centered Riding: Principles of Equitation	3 _____	_____	_____
AVS 249	Lab Animal Technology	2 _____	_____	_____
AVS 333	Natural Horse Training	3 _____	_____	_____
AVS 393	Training the Standardbred Horse	3 _____	_____	_____
SMS 211	Introduction to Aquaculture	3 _____	_____	_____
<b>10. Species-Specific Management</b>				
<u>Choose two or more (6 credits):</u>				
AVS 203	Equine Management	3 _____	_____	_____
AVS 346	Dairy Cattle Technology	3 _____	_____	_____
AVS 349	Livestock Management	3 _____	_____	_____
<b>11. Witter Hands-on Management</b>				
<u>Choose one or more (2 credits):</u>				
AVS 303	Horse Barn Co-op	2 _____	_____	_____
AVS 347	Dairy Cattle Technology Lab	2 _____	_____	_____
<b>12. Advanced Topics</b>				
<u>Choose at least 2 courses (6 credits):</u>				
AVS 351	Animal Science Techniques	3 _____	_____	_____
AVS 353	Equine Repro. & Breeding Management	3 _____	_____	_____
AVS 405	Livestock and Companion Animal Behavior	3 _____	_____	_____
AVS 433	Equine Exercise Physiology	3 _____	_____	_____
AVS 443	Advanced Centered Riding	3 _____	_____	_____
AVS 461	Advanced Animal Breeding	3 _____	_____	_____
SMS 420	Finfish Aquaculture I	3 _____	_____	_____

SMS 421	Finfish Aquaculture II	3	_____	_____	_____
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**13. Capstone courses within AVS major (4 credits)**

*Note: A "C- or better grade is required for AVS 401 and 402:*

AVS 401	Senior Paper I	2	_____	_____	_____
AVS 402	Senior Paper II	2	_____	_____	_____

**14. Courses required for application to most North American veterinary colleges (not required for students in the Animal Science Concentration (31 credits)**

BMB 300/305	General Microbiology	5	_____	_____	_____
BMB 322/323	Biochemistry lecture / lab	4	_____	_____	_____
CHY 251/253	Organic Chemistry I	5	_____	_____	_____
CHY 252/254	Organic Chemistry II	5	_____	_____	_____
MAT 126	Analytic Geometry and Calculus	4	_____	_____	_____
PHY 111	General Physics I	4	_____	_____	_____
PHY 112	General Physics II	4	_____	_____	_____

**15. Career-Related Experience** (Students in the **Pre-Veterinary Concentration** who complete all classes in Section 14 (Courses required for application to most North American veterinary colleges) are not required to complete the Career-Related Experience requirement. However, students who intend to apply to Colleges of Veterinary Medicine are advised to accumulate at least 300 hours of work-related experience under the supervision of a practicing veterinarian.

Choose one or more (total of 4 credits):

AVS 371	Dairy Management II	4	_____	_____	_____
AVS 396	Field Experience	1-4	_____	_____	_____
AVS 397	Equine internship	1-4	_____	_____	_____

**16. Recommended Pre-vet courses (required for application to some veterinary colleges (0 to 7 credits)**

BIO 335	Comparative Anatomy lecture, lab	4	_____	_____	_____
BIO 480	Cell Biology	3	_____	_____	_____

**17. Declaration of minor** Students in the Animal Science Concentration are encouraged to declare a minor:

**Minor declared in** \_\_\_\_\_ **Paperwork filed on** \_\_\_\_\_.

**18. Career Enhancement Courses Related to Minor (Animal Science concentration only; 18 Cr.)**

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

**19. Free Electives (0-6 Cr.)**

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

**Total Credits (minimum of 120 required for graduation)** \_\_\_\_\_