

ADVISING WORKSHEET
MTSU School of Agriculture
Major: Bachelor of Science in Horse Science, 2023–2024
 120 total semester hours required to earn a Bachelor's degree

**PRE-VETERINARY
 MEDICINE**
 study preparation

GENERAL EDUCATION REQUIREMENTS		
Course Number	Course Name	Hours
ENGL 1010	Expository Writing	3
ENGL 1020	Research and Argumentative Writing	3
COMM 2200	Fundamentals of Communication	3
HUMANITIES–LITERATURE. Choose ONE : (after ENGL 1010 and 1020)		
ENGL 2020	Themes in Literature and Culture	3
ENGL 2030	The Experience of Literature	3
HUM 2610	Foreign Literature in Translation	3
HUMANITIES. Choose TWO of the following		
ANTH 2210	Introduction to World Prehistory	3
ART 1030	Introduction to Art	3
ART 1920	Survey of Western Art	3
DANC 1000	Introduction to Dance	3
HIST 1010 or 1020	Survey of Western Civilization I or II	3
HIST 1110 or 1120	Survey of World Civilization I or II	3
MUHL 1610	The World of Music	3
MUS 1030	Introduction to Music	3
PHIL 1030	Introduction to Philosophy	3
THEA 1030	Introduction to Theatre	3
SOCIAL SCIENCES. Choose TWO of the following		
AAS 2100	Introduction to African-American Studies	3
ANTH 2010	Cultural Anthropology	3
ECON 2410	Principles of Economics, Macroeconomics	3
ECON 2420	Principles of Economics, Microeconomics	3
EMC/JOUR/ RIM 1020	America Media and Social Institutions	3
GEOG 2000	Introduction to Regional Geography	3
GS 2010	Introduction to Cross-Cultural Experiences	3
HLTH 1530/1531	Health and Wellness / Lab	3
PS 1005 or PS 1010	Intro American Politics OR Intro Global Politics	3
PSY 1410	General Psychology	3
RS 2030	Religion and Society	3
SOC 1010	Introductory Sociology	3
SOC 2010	Social Problems	3
WMST 2100	Introduction to Women's Studies	3
US HISTORY. Choose TWO of the following		
HIST 2010	Survey of United States History I	3
HIST 2020	Survey of United States History II	3
HIST 2030	Tennessee History	3
HIST 2040 or 2050	Survey of African American History I or II	3
MATH. Choose ONE of the following		
MATH 1530	Applied Statistics	3
MATH 1710	College Algebra — <i>minimum required for BIOL 1110</i>	3
MATH 1730	Precalculus	4
MATH 1810	Applied Calculus I	3
MATH 1910	Calculus I	4
BIOL 1110/1111	General Biology I (with lab)	4
BIOL 1120/1121	General Biology II (with lab)	4
BIOL 2230/2231	Microbiology (with lab)	4
BIOL 3250/3251	Genetics (with lab)	4
BIOL 4210/4211	Cell & Molecular Biology (with lab)	4
CHEM 1110/1111	General Chemistry I (with lab)	4
CHEM 1120/1121	General Chemistry II (with lab)	4
CHEM 3010/3011	Organic Chemistry I (with lab)	4
CHEM 3020/3021	Organic Chemistry II (with lab)	4
CHEM 3530/3531	Principles of Biochemistry (with lab)	4
PHYS 2010/2011	Non-Calculus-Based Physics I (with lab)	4
PHYS 2020/2021	Non-Calculus-Based Physics II (with lab)	4
GENERAL EDUCATION HOURS		89-90

MAJOR REQUIREMENTS		
Course Number	Course Name	Hours
ABAS 1000	Orientation to Agriculture	1
ANSC 1410	Elements of Animal Science	3
PLSO 1610	Elements of Plant Science	3
AGBS 3130	Principles of Agricultural Economics	3
PLSO 3340 or 4310	Soils or Forage Crops	3
ANSC 3440	Livestock Management	3
	HORS, ANSC, PLSO or AGBS elective	3
HORS 1110	Introduction to Horse Care and Use	3
HORS 2400	Fundamentals of Horsemanship	3
HORS 2480	Equine Evaluation and Selection	3
HORS 3040 or 3430	Stable Management or Horse Production	3
HORS 3410	Horse Breeds and Genetics	3
HORS 3300	Equine Health	3
HORS 4440	Equine Nutrition and Feeding	3
HORS 4090 or 4550	Equine Reproduction and Breeding or Equine Exercise Physiology	3
Horse Science Capstone – Choose ONE of the following **		
HORS 4040	Equine Event and Facility Management	3
HORS 4170	Equine Industry	3
HORS 4450	Techniques of Teaching Horsemanship	3
HORS 4460	Behavior and Training of Horses	4
HORS 4480	Advanced Judging of Horses	3
HORS 4540	Equine Assisted Therapy	3
HORS 4545	Equine Assisted Activities & Therapies II	3
MAJOR HOURS		46–47
A minimum of 12 upper-division HORS credits must be completed at MTSU		
ADDITIONAL UPPER DIVISION ELECTIVES		
Suggested electives:		
ANSC 3450 Anatomy and Physiology of Domestic Animals		
ANSC 3310 Animal Care and Welfare		
ANSC 4260 Behavior of Domestic Animals		
HORS 4090 and HORS 4440 and HORS 4550		
MINOR REQUIREMENTS		
Pre-Veterinary Medicine study preparation automatically includes		
a double minor in Biology and Chemistry. ALTERNATELY students can		
double major, Horse + General Science, by completing all Pre-Vet reqs		
plus MATH 1730 Precalculus or higher (instead of College Algebra)		

IMPORTANT NOTES:

- 36 hours of the required 120 hours be in 3000- or 4000-level upper-division courses.
- 30 hours of upper-division courses must be completed at MTSU, with a minimum of 12 upper-division HORS credits at MTSU.
- 50 hours of the required 120 hours must be earned at a 4-year college or university. Students must have a minimum GPA of 2.00 overall and within the major to graduate.

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Major: B.S. in Horse Science – PRE-VET PREP, 2023–2024

More about Pre-Veterinary Medicine Study Preparation

It is most cost-effective to attend veterinary school in the state where you are a resident. All veterinary schools must maintain accreditation and pass mandatory reviews on a regular basis. One veterinary school is not necessarily “better” than another, and the difference in price between in-state and out-of-state tuition may be nearly double or more. For example, the University of Tennessee College of Veterinary Medicine Tuition and Fees for the 2021-2022 year were \$29,886 for Tennessee residents and \$57,152 for non-residents. Because we are in Tennessee, the information on this advising worksheet emphasizes application to the University of Tennessee College of Veterinary Medicine. More information about UT Vet School admissions can be found here: <http://www.vet.utk.edu/admissions>

If you are not a resident of Tennessee, you should review admission requirements for the veterinary college in your state of residence. A list of accredited colleges of veterinary medicine and their contact information is at this link: https://www.avma.org/ProfessionalDevelopment/Education/Accreditation/Colleges/Documents/colleges_accredited.pdf

Admission to Veterinary School is highly competitive!!
Regardless of the school to which you apply, GRADES are EXTREMELY IMPORTANT!!

Academic Profile of Applicants admitted to Tennessee Veterinary Colleges last year, 2022-23:

University of Tennessee Vet School:
 Average cumulative GPA: 3.69
 Average GRE Score: 305
 Total applications: 1,607
 Students accepted into vet school: 90

Lincoln Memorial Vet School:
 Average cumulative GPA: 3.50
 CASPer test required (not GRE)
 Total applications: 1,825
 Students accepted into vet school: 125

These statistics are not unique to the University of Tennessee veterinary school.

For example, here are reported admission statistics for some other Colleges of Veterinary Medicine:

Auburn University	1,217 applicants • 131 accepted	Average GPA: 3.70
University of Georgia	1,360 applicants • 150 accepted	Average GPA: 3.70
Colorado State University	4,128 applicants • 156 accepted	Average GPA: 3.70
North Carolina State University	1,963 applicants • 99 accepted	Average GPA: 3.69
Texas A&M University	1,175 applicants • 174 accepted	Average GPA: 3.80

<https://www.aavmc.org/becoming-a-veterinarian/what-to-know-before-you-apply/admitted-student-statistics/>

All pre-veterinary course requirements must be completed by the end of the spring term of the year in which you intend to enroll in vet school. All prerequisite courses must be completed with a grade of C or better (but if you look at the academic profile of students admitted, please understand that a 3.69 average GPA means grades of A or B in all or nearly all classes). Veterinary schools consider GPA of *all course work attempted, even repeated courses*. In addition to your overall GPA, they place a strong emphasis on the GPA of your science and math courses (advanced biology, chemistry, physics, biochemistry, and math), and they also examine your GPA in animal science courses. The bottom line: Your grades in science and math must be exceptional.

The Graduate Record Exam (GRE) General Test is also required for admission to most vet schools. GRE scores of successful veterinary school applicants average around 305 to 315 total (verbal + quantitative); 340 is the highest possible GRE score. More information about the GRE can be found here: <http://www.ets.org/gre>

COURSE PLANNING WORKSHEET

Semester: _____

Credits

Semester: _____

Credits
