



**ANIMAL SCIENCE  
COURSE PATHWAY**



**EXPLORATION** Small Animal Management  
Equine Science



**INVESTIGATION** Livestock Production



**PREPARATION** Veterinary Medical Applications  
Advanced Animal Science (recommended)



**APPLICATION** Practicum in AFNR—  
Veterinary Medicine

**EXPANDED LEARNING  
OPPORTUNITIES**

**Career & Technical  
Student Organization**

Texas FFA

**Work-based Learning**

Local farm or ranch  
Local veterinary clinic  
4H Agri-science

**INDUSTRY BASED CERTIFICATION  
OPPORTUNITIES**

Certified Veterinary Assistant, Level 1

Elanco Fundamentals of Veterinary Medical  
Applications Certification

Elanco Fundamentals of  
Animal Science Certification

**DUAL CREDIT OPPORTUNITIES**

Discuss dual credit opportunities with  
your counselor

The Animal Science program of study focuses on the science, research, and business of animal and other living organisms. It teaches students how to apply biology and life science to real-world life processes of animals and wildlife, either in laboratories or in the field, which could include a veterinary office, a farm or ranch, or any outdoor area harboring animal life. Students may also research and analyze the growth and destruction of species and research or diagnose diseases and injuries of animals.

## POSTSECONDARY OPPORTUNITIES

### ASSOCIATE'S DEGREE

- ◆ Food Science and Technology
- ◆ Veterinary Studies
- ◆ Biotechnology Laboratory Technician
- ◆ Biology Technician

### BACHELOR'S DEGREE

- ◆ Animal Sciences
- ◆ Agriculture
- ◆ Biology
- ◆ Zoology/Animal Biology

### MASTER'S, DOCTORAL, & PROFESSIONAL DEGREES

- ◆ Genetics
- ◆ Veterinary Medicine
- ◆ Biology and Physical Sciences
- ◆ Biology and Biomedical Sciences

## CONNECTED OCCUPATIONS

Occupation	Median Wage	Annual Openings	% Growth
Animal Breeders	\$39,139	28	9%
Animal Scientists	\$57,533	22	12%
Medical Scientists	\$63,898	435	27%
Veterinarians	\$93,496	294	24%
Zoologists & Wildlife Biologists	\$67,309	45	32%

Successful completion of the Animal Science program of study fulfills the requirements of a Business & Industry endorsement or STEM endorsement if the math and science requirements are also met.

### Temple ISD Course Details

COURSE NAME	PREREQUISITES	GRADES	TISD COURSE CODE	SERVICE ID and COURSE CREDIT
Small Animal Management <sup>1</sup>	None	9-12	V13004 <sup>+</sup>	13000400 (0.5 credit)
Equine Science <sup>1</sup>	None	9-12	V13005 <sup>+</sup>	13000500 (0.5 credit)
Livestock Production <sup>2</sup>	None	10-12	V13003 <sup>+</sup>	13000300 (1 credit)
Advanced Animal Science (recommended; required if not taking Practicum)	Biology & Chemistry or IPC	11-12	V13007 <sup>+</sup>	13000700 (1 credit)
Veterinary Medical Applications <sup>3*</sup>	Small Animal Management Equine Science Livestock Production	11-12	V13006 <sup>+</sup>	13000600 (1 credit)
Practicum in AFNR <sup>4</sup> — Veterinary Medicine <sup>**</sup>	Small Animal Management Equine Science Livestock Production Veterinary Medical Applications	12	V13026	13002500 (2 credits)

<sup>1</sup> Students are expected to earn 40 CVA clinical hours during Small Animal Management and Equine Science outside of class time  
<sup>2</sup> Students are expected to earn 75 additional CVA clinical hours during Livestock Production outside of class time (total hours = 115)  
<sup>3</sup> Students are expected to earn 125 additional CVA clinical hours during Veterinary Medical Applications outside of class time (total hours = 240)  
<sup>4</sup> Students may be required to earn additional CVA clinical hours outside of class time (total CVA clinical hours required for exam = 300)  
\*Costs are associated with this course  
\*\*Travel and costs are associated with this course  
<sup>+</sup>Minimum requirements to meet CTE Completer status

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