



# Animal Science & Research

Two-Year Academy



## Who We Are:

The Animal Science and Research Academy prepares students for a variety of career opportunities within the animal care industry and agricultural sciences. It also helps guide learners to postsecondary opportunities. Students learn through hands-on experiences from the animals in the classroom, offsite visits to local businesses, discussions and presentations.

## What We Do:

- Students are provided with opportunities within FFA to grow and develop strong personal characteristics and build lasting relationships.
- Students will learn why preserving agriculture is so important for our future. Hands-on opportunities are provided with small animals, large animals, and exotics.
- Wichita State Tech dual credit is offered for 2nd year students.
- Students can earn Industry Certifications in OSHA 10 and YQCA (Youth for the Quality Care of Animals)



Electronic file located in Xello - "Course Planner"  
 Located at OPS Innovation Campus | X: @OlathePathways  
 Learn more: [olatheschools.org/careerpathways](http://olatheschools.org/careerpathways)



Two-Year Academy

Graduation Requirements	9th Grade	Credits	10th Grade	Credits	11th Grade	Credits	12th Grade	Credits	POTENTIAL CAREERS
English (x4 credits)	English 9 <i>OR</i> Honors English 9	1	English 10 <i>OR</i> Honors English 10	1	English 11 <i>OR</i> AP English Language	1	English 12 <i>OR</i> College Prep English <i>OR</i> AP English Literature	1	Veterinary Technician Veterinary Assistant Veterinarian Registered Vet
Math (x3 credits)	Must take 1.0 math 9th gr year as recommended by facilitator & math teacher	1	Must take 1.0 math 10th gr year as recommended by facilitator & math teacher	1	Must take 1.0 math 11th gr year as recommended by facilitator & math teacher	1	Must take 1.0 math 12th gr year as recommended by facilitator & math teacher	1	Animal Shelter Manager Kennel or Stable Manager
Science (x3 credits) (1 Life; 1 Physical; 1 Elective)	Biology <i>OR</i> Honors Biology	1	Chemistry <i>OR</i> Honors Chemistry	1	AP <i>OR</i> College Chemistry AP <i>OR</i> College Biology Physics <i>OR</i> AP/College Physics I/II AP Environmental Science	1	AP <i>OR</i> College Chemistry AP <i>OR</i> College Biology Physics <i>OR</i> AP/College Physics I/II AP Environmental Science	1	Artificial Insemination (AI) Technician Laboratory Animal Caretaker Animal Health Inspector
Social Studies (x3 credits) (1 World; 1 US; 0.5 Govt; 0.5 elective)	World History <i>OR</i> Honors World History	1	Highly recommended: World Geography <i>OR</i> Honors World Geography	.5	US History <i>OR</i> AP US History	1	US Govt <i>OR</i> AP US Govt	.5	Livestock Geneticist Nutritionist Animal Scientist Livestock Producer Equine
Communications (0.5 credit)	Student choice - any year(s) (.5)								Rehabilitation Farm Manager
Financial Literacy: (0.5 credit)	Financial Literacy - can be taken any year grades 10-12 (.5)								Zoo Animal Specialist
Fine/Performing Arts (1 credit)	Student choice - any year(s) (1.0)								
Health: (0.5 credit)	Health Education - can be taken in grade 9 or 10 Optional: Health may be taken online through eAcademy if space is needed in student's schedule.			.5					
Language Applications: (1.0 credit)	Using the PPG - Identify courses that fulfill this requirement (1.0)								
Life Studies: (0.5 credit)	Using the PPG - Identify courses that fulfill this requirement (.5)								
Physical Education (0.5 credit)	PE Concepts <i>OR</i> Cheer/Dance <i>OR</i> Strength & Conditioning Optional: P.E. Concepts may be taken online through eAcademy if space is needed in student's schedule. This can be scheduled during the summer - grades 10-12 only. Other online classes are available at <a href="http://eacademy.olatheschools.com">eacademy.olatheschools.com</a>								<b>Y 13 / Y 14</b>
STEM (1.0 credit)	Students fulfill STEM graduation requirement through Two-Year Academy Courses (1.0)								
Individual Focus (5.5 credits) Two-Year Academy Coursework					Animal Science Advanced Animal Science Ag Leadership & Communications	3	Small Animal Care Veterinary Health Sciences Animal Science Internship <i>OR</i> Animal Science Research	3	
Total Credits: (24 total needed for graduation)	9th grade total:	7	10th grade total:	7	11th grade total:	7	12th grade total:	3+	

**NOTE:** Credits beyond requirements in any category will fall under individual focus.