Great Oaks Animal Science and Management Essential Skills Profile

This profile provides an outline of the skills required for successful completion of this career program. Additional information is located on the Great Oaks website at https://hs.greatoaks.com/future-students/essential-skills-for-high-school-programs and selecting the corresponding career program.

Recommended WorkKeys® Scores for Animal Science

Applied Mathematics – 3
Workplace Documents – 3
Graphic Literacy – 4

*Practice tests and more information at https://jobseeker.ohiomeansjobs.monster.com/Assessments/Home.aspx

Essential Skills Needed to Successfully Complete the Program			
Rating Key:	**Low = Slightly Essential**	**Medium = Essential**	**High = Very Essential**

Key Vocational Factors		Rating
Visual Acuity	The ability to detect differences/details visually	Medium
Depth Perception	The ability to detect the physical distance/depth of objects in space and time	Medium
Oral Communication	The ability to express/explain ideas	High
Oral Expression	The ability to verbally explain and express self in an intelligible manner so others will understand	High
Written Communication	The ability to communicate in a written format and record information accurately	High
Physical Mobility/Strength	Standing, stooping, bending, restraining/holding animals, and lifting animals/cages weighing more than 50 pounds	High
Safety Understanding	Able to comprehend hazards of working with animals, diseases, blood/animal fluids, tools, materials, equipment, and environmental conditions; able to wear personal protective equipment suitable for task	High

Worker Trait Skills	Rating
Ability to get along with others	Medium
Ability to work independently, without close supervision	High
Ability to work tasks of, even those with minimal interest	Medium
Ability to stick to assigned task to a positive/expected conclusion	High
Ability to follow and retain:	
Multistep oral instructions	High
Written instructions/technical manuals - multistep	High
Simple to complex diagram instructions	Medium
Visual models or demonstrated instructions	High
Ability to use tools of trade (blades, clippers, grooming clippers, muzzles, x-rays, etc.)	High
Ability to use numerical data (count, measure, compute, etc.) in applied setting	High

Ability to discriminate between objects of similar:	
Size	Medium
Shape	Medium
Color	Medium
Spatial Relationship	Medium
Dexterity-Fine finger/motor	High
Ability to organize work process/follow defined procedures	High
Coordination (eye-hand)	High
Able to sequence events or follow a sequence as necessary	High
Active Listening: Give full attention to what other people are saying, taking time to understand the points being made, asking appropriate questions and not interrupting	High

Applied Mathematics Skills * Recommended WorkKeys® Scores 3	
Understanding of numbers	Work with whole numbers and decimals
Mathematical calculations	Convert fractions and decimals and relate this information to percentages
Solving problems with math	Convert between familiar units of money and time (e.g. one hour equals 60 minutes or ½ of a dollar equal $0.50)
Workplace Documents Skills * Recommended WorkKeys® Scores 3	
Complexity	Short with minimal extra information
Information and detail	Clearly stated information with a small number of details
Vocabulary	Mostly common with industry jargon
Document type	Informational, instructional and policy-type documents
Graphic Literacy Skills * Recommended WorkKeys® Scores 4	
Using charts/graphs	Locate information in charts or graphs
Interpreting information	Compare two or more pieces of information, identify trends/patterns, make inference and identify graphics that accurately represents data

Additional Recommended Abilities

Strong memorization skills	Handle chemical and animal smells and contacts
Consideration and understanding of allergies such as pet/animal/hay	Handling excrement, getting dirty, urine, and other conditions associated with working with animals
Handling unfamiliar, dangerous, large and small animals	Ability to lift heavy objects

Knowledge Required in Animal Science

Customer and Personal Service	Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction – maintaining professional appearance and attitude at all times
Biology	Knowledge of plant and animal organisms, their tissues, cells, functions, interdependencies, and interactions with each other and the environment.
English Language	Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.

Animal Science Activities

Hold or restrain animals during veterinary procedures.	Clean and maintain kennels, animal holding areas, examination or operating rooms, or animal loading or unloading facilities to control the spread of disease.
Fill medication prescriptions.	Groom, trim, or clip animals' coats.
Administer anesthetics during surgery and monitor the effects on animals.	Assist veterinarians in examining animals to determine the nature of illnesses or injuries.
Monitor animals recovering from surgery and notify veterinarians of any unusual changes or symptoms.	Examine animals to detect behavioral changes or clinical symptoms that could indicate illness or injury.
Clean, maintain, and sterilize instruments or equipment.	Dust, spray, or bathe animals to control insect pests.
Administer medication, immunizations, or blood plasma to animals as prescribed by veterinarians.	Educate or advise clients on animal health care, nutrition, or behavior problems.
Collect laboratory specimens, such as blood, urine, or feces for testing.	Prepare surgical equipment and pass instruments or materials to veterinarians during surgical procedures.
Prepare feed for animals according to specific instructions, such as diet lists or schedules.	Provide emergency first aid to sick or injured animals.
Perform routine laboratory tests or diagnostic tests, such as taking or developing x-rays.	Exercise animals or provide them with companionship.
Prepare examination or treatment rooms by stocking them with appropriate supplies.	Sell pet food or supplies to customers.
Aid in euthanatizing of animals or disposal of corpses.	Record information relating to animal genealogy, feeding schedules, appearance, behavior, or breeding.
Perform office reception duties, such as scheduling appointments or helping customers.	Perform hygiene-related duties, such as clipping animals' claws or cleaning and polishing teeth.

Perform accounting duties, such as bookkeeping, billing customers for services, or maintaining inventories.	Write reports, maintain research information, or perform clerical duties.

Technology

Office Suite Software	Calendar and Scheduling Software
Medical Software	Label Making Software

Certifications Students Can Earn

Credential	Ohio Graduation Points
Elanco (iCEV) Fundamentals of Animal Science	6
Elanco (iCEV) Veterinary Medical Applications	6
Forklift Operation	2
OSHA 10 – Agriculture	1
CPR/First Aid	1
Pet First Aid and Disaster Response	N/A

Possible College Credits

College Credit Plus (CCP)	The CCP program provides Ohio high school students an opportunity to complete college courses and earn transcripted credit.
Career Technical Assurance Guides (CTAGs)	CTAGs award college credit for career-technical coursework to students who complete an approved course and earn a qualifying score on the end of course exam.
Articulated Credit	Some Great Oaks career-technical programs have agreements with colleges where student can earn credit toward a specific degree.

Please speak with your school counselor, Great Oaks counselor and/or career technical instructor to learn more about these potential opportunities.

Possible Career Pathways

Veterinary Assistant	Kennel Manager
Laboratory Animal Caretakers	Pet Stylist
Pet Shop Employee	Zoo Animal Caretaker
Biologist/zoologist	Veterinary Technician