

 <p><b>Great Oaks</b> CAREER CAMPUSES Diamond • Laurel • Live • Scarlet</p>	<h2>Great Oaks Animal Science and Management</h2> <h3>Essential Skills Profile</h3>
	<p>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 <a href="http://hs.greatoaks.com/essential-skills-high-school-programs/">http://hs.greatoaks.com/essential-skills-high-school-programs/</a> and selecting the corresponding career program.</p>

### Recommended Work Keys Scores for Animal Science

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

\*Practice tests and more information at [www.act.org/workkeys](http://www.act.org/workkeys)

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	Medium
Oral Expression	The ability to verbally explain and express self in an intelligible manner so others will understand	Medium
Written Communication	The ability to communicate in a written format and record information accurately	Medium
Physical Mobility/Strength	Standing, stooping, bending, restraining/holding animals, and lifting animals/cages weighing more than 20 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	Medium
Ability to work toward work including tasks of minimal interest	Medium
Ability to stick to assigned task to a positive/expected conclusion	Medium
Ability to follow and retain:	
Multi step oral instructions	Medium
Written instructions/technical manuals-multi step	Medium
Simple to complex diagram instructions	Medium
Visual models or demonstrated instructions	Medium
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	Medium
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	Medium
Coordination (eye-hand)	High
Able to sequence events or follow a sequence as necessary	Medium
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

<b>Reading Skills *See Work Keys Recommended Scores</b>	
<b>Math Skills * See Work Keys Recommended Scores</b>	
Counting, recording, comparing ,calculating	Whole numbers and decimals
Calculating fractions, decimals, ratios, order of operations	

### Additional Abilities Required

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	

### Knowledge Required in Animal Science

<b>Customer and Personal Service</b>	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.
<b>Biology</b>	Knowledge of plant and animal organisms, their tissues, cells, functions, interdependencies, and interactions with each other and the environment.
<b>English Language</b>	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.	Perform enemas, catheterizations, ear flushes, intravenous feedings, or gavages.
Provide assistance with euthanasia 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.
Sell pet food or supplies to customers.	

### Technology

Word processing software	Office suite software
Medical software	Label making software
Calendar and scheduling software	

### Available Certifications

OHSA 10-hour for Agriculture (1 Point)	CPR/First Aid Certification (1 Point)
Industrial Fork Lift Training (1 Point)	Pet First Aid & Disaster Response Certification
Pet Industry Joint Advisory Council (PIJAC) Certified Avian Specialist	

**Possible College Credits**

College Credit Plus in English, Math, Social Studies, or Science	Must be preapproved. Must pass a college course at an Ohio college or College Credit Plus class at Great Oaks.
Articulated Credit	Great Oaks has agreements with certain colleges that may give you credits for a specific degree. Possible agreements are: <ul style="list-style-type: none"> <li>• Clark State Community College (Agriculture Business, up to 6 credit hours possible)</li> <li>• Southern State Community College (Agriculture Production, up to 4 credit hours possible)</li> <li>• Wilmington college (agriculture, 2 hours possible)</li> </ul>
Career Technical Credit Transfer	The Ohio Transfer to Degree Guarantee helps career and technical students transfer credits earned in high school to community college or four-year degree programs. The credit can be used at any Ohio public college or university: <ul style="list-style-type: none"> <li>• If you successfully completed your Career-Technical program and passed certain required assessments.</li> <li>• If you attend a similar program at a public Ohio college or university.</li> </ul>

\*Additional college or post-secondary education may be required in this field

**Possible Career Pathways**

Veterinary assistant	Groomer/bather/brusher
Laboratory animal caretakers	Kennel operator
Pet shop employee	Zoo animal caretaker
Pet stylist	Veterinarian