

**2020/2021 Student Competency Record**  
**Veterinary Science II**  
**8089 - 36 weeks, 140 hours**

<b>Student</b>	<b>School Year</b>
<b>School</b>	<b>Teacher Signature</b>

Traditional letter or numerical grades do not provide adequate documentation of student achievement in competency-based education; therefore, the Virginia Standards for CBE require a recording system to provide information about competencies achieved to employer, student-employee, and teacher. The Student Competency Record provides a means for keeping track of student progress. Ratings are assigned by the teacher for classroom competency achievement and by the teacher-coordinator in conjunction with the training sponsor when competence is evaluated on the job.

Tasks/competencies designated "Required" are considered essential statewide and are required of all students. In some courses, all tasks/competencies have been identified as required. Tasks/competencies marked "Optional" are considered optional; they and/or additional tasks/competencies may be taught at the discretion of the school division. Tasks/competencies marked with an asterisk (\*) are considered sensitive, and teachers should obtain approval by the school division before teaching them. Student competency records should be kept as long as the student is enrolled in the school and for five years after the student graduates/leaves the school.

**Note: Students with an Individualized Education Program (IEP) or an Individualized Student Alternative Education Plan (ISAEP) will be rated, using the following scale, only on the competencies identified in their IEP or ISAEP.**

Students will be expected to achieve a **satisfactory rating** (one of the three highest marks) on the Student Competency Record (SCR) rating scale on at least 80% of the required (essential) competencies in a CTE course.

**...RATING SCALE...**

- 1 - Can teach others**
- 2 - Can perform without supervision**
- 3 - Can perform with limited supervision**
- 4 - Can perform with supervision**
- 5 - Cannot perform**

<b>8089 36 weeks, 140 hours</b>	<b>Veterinary Science II TASKS/COMPETENCIES</b>		<b>Date</b>	<b>Rating</b>
	<b>Demonstrating Personal Qualities and Abilities</b>			
Required	1	Demonstrate creativity and innovation.		
Required	2	Demonstrate critical thinking and problem solving.		
Required	3	Demonstrate initiative and self-direction.		
Required	4	Demonstrate integrity.		
Required	5	Demonstrate work ethic.		
	<b>Demonstrating Interpersonal Skills</b>			
Required	6	Demonstrate conflict-resolution skills.		
Required	7	Demonstrate listening and speaking skills.		
Required	8	Demonstrate respect for diversity.		
Required	9	Demonstrate customer service skills.		
Required	10	Collaborate with team members.		
	<b>Demonstrating Professional Competencies</b>			
Required	11	Demonstrate big-picture thinking.		
Required	12	Demonstrate career- and life-management skills.		
Required	13	Demonstrate continuous learning and adaptability.		
Required	14	Manage time and resources.		
Required	15	Demonstrate information-literacy skills.		
Required	16	Demonstrate an understanding of information security.		
Required	17	Maintain working knowledge of current information-technology (IT) systems.		
Required	18	Demonstrate proficiency with technologies, tools, and machines common to a specific occupation.		
Required	19	Apply mathematical skills to job-specific tasks.		
Required	20	Demonstrate professionalism.		
Required	21	Demonstrate reading and writing skills.		
Required	22	Demonstrate workplace safety.		
	<b>Examining All Aspects of an Industry</b>			
Required	23	Examine aspects of planning within an industry/organization.		
Required	24	Examine aspects of management within an industry/organization.		
Required	25	Examine aspects of financial responsibility within an		

		industry/organization.		
Required	26	Examine technical and production skills required of workers within an industry/organization.		
Required	27	Examine principles of technology that underlie an industry/organization.		
Required	28	Examine labor issues related to an industry/organization.		
Required	29	Examine community issues related to an industry/organization.		
Required	30	Examine health, safety, and environmental issues related to an industry/organization.		
<b>Addressing Elements of Student Life</b>				
Required	31	Identify the purposes and goals of the student organization.		
Required	32	Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult.		
Required	33	Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects.		
Required	34	Identify Internet safety issues and procedures for complying with acceptable use standards.		
<b>Exploring Work-Based Learning</b>				
Required	35	Identify the types of work-based learning (WBL) opportunities.		
Optional	36	Reflect on lessons learned during the WBL experience.		
Required	37	Explore career opportunities related to the WBL experience.		
Optional	38	Participate in a WBL experience, when appropriate.		
<p><b>Note: Competencies 39-43 have been added to ensure compliance with federal legislation: National FFA Organization's Federal Charter Amendments Act (Public Law 116-7, <a href="https://www.congress.gov/116/plaws/publ7/PLAW-116publ7.pdf">https://www.congress.gov/116/plaws/publ7/PLAW-116publ7.pdf</a>). All inquiries may be sent to <a href="mailto:cte@doe.virginia.gov">cte@doe.virginia.gov</a>. Students are provided opportunities for leadership, personal growth, and career success. Instruction is delivered through three major components: classroom/lab instruction, supervised agricultural experience (SAE) program, and student leadership (FFA).</b></p>				
Required	39	Identify the role of supervised agricultural experiences (SAEs) in agricultural education.		
Required	40	Participate in an SAE.		
<b>Exploring Leadership Opportunities through FFA</b>				
Required	41	Identify the benefits and responsibilities of FFA membership.		

Required	42	Describe leadership characteristics and opportunities as they relate to agriculture and FFA.		
Optional	43	Apply for an FFA degree and/or an agricultural proficiency award.		
<b>Handling Exotic Animals</b>				
Optional	44	Explain husbandry of exotic animals.		
Optional	45	Describe how to lift and carry exotic animals.		
Optional	46	Describe methods of moving nonaggressive exotic animals into and out of cages/enclosures.		
Optional	47	Describe nutritional needs of and feeding procedures for exotic animals.		
Optional	48	Describe restraint procedures to facilitate veterinary examination of exotic animals.		
Optional	49	Explain how to perform a partial water change and filter change on an aquarium.		
<b>Understanding Laboratory Procedures</b>				
Required	50	Explain the importance of performing and reporting all laboratory procedures with complete accuracy.		
Required	51	Describe the management of laboratory samples.		
Required	52	Explain the procedure for preparing and staining blood films.		
Required	53	Describe common abnormalities seen in blood films.		
Required	54	Perform a urinalysis.		
<b>Demonstrating Hospital Procedures</b>				
Required	55	Identify veterinary instruments and equipment and their uses.		
Required	56	Describe methods for cleaning, disinfecting, and preparing surgical instruments.		
Required	57	Explain bandaging and splinting methods.		
Required	58	Identify types of syringes and their uses.		
Required	59	Explain methods of dental care for animals.		
Required	60	Explore spaying and neutering options.		
Required	61	Describe preparation of a patient for surgery.		
<b>Understand Disease and Disease Prevention</b>				
Required	62	Explain the concept of disease.		
Required	63	Describe the characteristics of disease-producing agents.		
Required	64	Explain common animal diseases and their treatments.		
Required	65	Describe the concept of immunity.		
Required	66	Explain basic vaccine concepts.		

Required	67	Identify common animal diseases that can be prevented by vaccination.		
Required	68	Describe the factors involved in vaccination schedules.		
Required	69	Explain concepts of animal quarantine.		
Required	70	Describe common diseases and their symptoms in companion animals.		
Required	71	Describe treatments and preventive measures for common diseases.		
<b>Understanding Parasitology</b>				
Required	72	Explain concepts of parasitology.		
Required	73	Identify parasites that commonly affect animals.		
Required	74	Explain the life cycle of parasites and its relationship to parasitic infestation, detection, and treatment.		
Required	75	Describe the clinical signs and symptoms of common parasitic infestations.		
Required	76	Explain standard diagnostic procedures for determining the presence of parasites.		
Required	77	Describe preventive measures and common treatments for parasitic infestation.		
<b>Understanding Veterinary Pharmacology</b>				
Required	78	Explain the concept of pharmacology.		
Required	79	Describe local, state, and national organizations that focus on animal protection and health.		
Required	80	Describe the categories of commonly used veterinary medications.		
Required	81	Describe routes of medication administration.		
Required	82	Determine the best method for administering a medication.		
Required	83	Describe factors that affect dose determination.		
Required	84	Calculate dosages for weight-based medications.		
Required	85	Interpret information on medication labels.		
Required	86	Explain the importance of avoiding specific drug combinations.		
Required	87	Describe administration of oral and topical medications.		
Required	88	Describe how to prepare and dispense medications that a client will administer at home.		
Required	89	Explain the different levels of control for medications.		
<b>Performing Mathematical Operations (Posology)</b>				
Required	90	Complete basic four-function operations with whole		

		numbers, fractions, and decimals.		
Required	91	Identify basic units of the commonly used systems of measurement.		
Required	92	Perform conversions between common systems of measurement.		
Required	93	Measure liquids.		
Required	94	Dilute liquids, following label directions.		
Required	95	Calculate amounts for dilutions.		
Required	96	Solve word problems associated with veterinary medicine.		
	<b>Exploring First Aid on Animals</b>			
Required	97	Explain the concept of first aid and its importance to the veterinary assistant's work.		
Required	98	Describe the components of a pet first-aid kit and the uses of each.		
Required	99	Identify common situations and conditions requiring first aid.		
Required	100	Describe how to prioritize common emergencies.		
Required	101	Identify local resources for animal care.		
	<b>Maintaining Professional and Ethical Standards</b>			
Required	102	Explain the relationship between animal welfare and the animal rights movement.		
Required	103	Describe ethical standards for veterinary practice.		
	<b>Performing Office Functions</b>			
Required	104	Explain the layout of the veterinary facility and rationale for the design.		
Required	105	Maintain working knowledge of current veterinary-specific computer software.		
Required	106	Check client in and out.		
Required	107	Maintain animal owner identification.		
Required	108	Describe how to handle client inquiries about products or services.		
	<b>Exploring Emerging Technologies in Veterinary Sciences</b>			
Required	109	Identify current and emerging technologies and advances in veterinary science.		
Required	110	Explain the concept of biotechnology as related to veterinary science.		
	<b>Understanding Genetics and Breeding</b>			
Required	111	Explain the relationship among genes, chromosomes, and deoxyribonucleic acid (DNA).		

