

# Elko County School District



Central Administrative Office  
Telephone (775) 738-5196 – Fax (775)738-0808  
850 Elm Street – Elko, Nevada 89801

February 17, 2023

Paul Allen, Director, ECSD Secondary Curriculum and Instruction

Dear Paul,

I am submitting documents to be included for the ECSD Board of Trustees agenda to review and submit the application for Academic Credit for Career and Technical Education Coursework, effective Fall 2023-Spring 2025, as per NAC 389.672.

The Academic credit requested is as follows:

- Completion of CTE Courses Principles of Agriculture, Food, and Natural Resources and Animal Systems are equivalent to earning one science credit towards high school graduation

The documents that are attached include:

- Language of NAC 389.672
- Statement of Academic Credit to be granted, signed by the committee members
- Letters of Appointment of the committee members
- Academic Credit for Career and Technical Education Handbook with Science Alignment document that verifies the alignment of the CTE course standards with the academic standards to be taught in the CTE course.
- Copy of the student notification letter

Once approved by the ECSD Board of Trustees, the minutes of the meeting of approval will be attached, and the documents will be sent to the Board of Education for approval.

Please feel free to contact me for any further information regarding this matter.

A handwritten signature in black ink that reads "H Steel". The signature is written in a cursive style.

Heather Steel, ECSD CTE Facilitator

# Elko County School District



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## **NAC 389.672 Academic credit for a course of study in career and technical education: Limitations and prerequisites. ([NRS 385.080](#), [385.110](#), [388.360](#))**

1. A board of trustees may allow a pupil to earn, towards the units necessary for graduation from high school, two units of the credit required in English, one unit required in mathematics, one unit required in science and one-half unit required in health if he or she is enrolled in a course of study in career and technical education approved pursuant to this section within one of the program areas set forth in subsection 1 of [NAC 389.803](#) and that course includes, as part of its curriculum, the curriculum of the required course.

2. The superintendent of the school district shall appoint a committee composed of one person certified to teach in the course of study in career and technical education and one person certified to teach in the academic area in which the credit may be earned. The committee must verify to the board of trustees that the curriculum for the course of study in career and technical education includes the curriculum of the required course of study for which a pupil may earn credit.

3. After verification has been received by the board of trustees, the written curriculum and title of the course of study in career and technical education and a statement of the academic credit to be granted must be submitted to the State Board of Education for approval. Academic credit may be granted for the course of study in career and technical education or a combination of courses only after the State Board of Education has given its approval.

4. The Superintendent of Public Instruction may give approval for the granting of academic credit to a board of trustees requesting to use a curriculum for a course of study in career and technical education that has been approved by the State Board of Education for another school district if:

(a) The procedures set forth in subsection 2 were followed by the requesting district; and

(b) The board of trustees provides assurances that it will not deviate from the curriculum that has been approved by the State Board of Education.

5. A pupil who earns academic credit pursuant to this section must be notified that the approval for academic credit is designed to meet the requirements for graduation from high school and may not necessarily be accepted for academic credit by a specific postsecondary institution. A copy of the notification given to the pupil must accompany the other materials to be submitted to the State Board of Education for final approval.

6. A minimum number of credits must be earned in the respective academic areas, as follows:

(a) At least two credits must be earned in the academic mathematics department;

(b) At least one credit must be earned in the academic science department; and

(c) At least two credits must be earned in the academic English department.

(Added to NAC by Bd. of Education, eff. 5-4-87; A by Bd. for Occupational Education, 3-27-92; 11-17-95; A by Bd. of Education by R069-97, 12-10-97, eff. 9-1-99; R155-01, 12-17-2001; R195-01, 4-1-2002; R165-03, R166-03, R184-03 & R185-03, 1-22-2004; R236-03, 3-19-2004; A by Bd. for Career & Tech. Educ. by R172-05, 2-23-2006; A by Bd. of Education by R132-10, 12-16-2010; A by R087-12, 11-1-2012)

# Elko County School District



Central Administrative Office  
Telephone (775) 738-5196 – Fax (775)738-0808  
850 Elm Street – Elko, Nevada 89801

February 13, 2023

Paul Allen  
Director, ECSD Secondary Curriculum and Instruction

Dear Paul,

The Nevada Department of Education Standards for the Principles of Agriculture, Food, and Natural Resources and Animal Systems, as well as the Nevada Academic Content Standards for Science have been reviewed by Agriculture Education and Biological Science staff and have been found to meet the conditions for academic science credit, set forth by NAC 389.672, as outlined by the Nevada Department of Education Office of Career Readiness, Adult Learning, and Education Options Academic Credit for Career and Technical Coursework Procedural Recommendation.

A handwritten signature in black ink that reads 'H Steel'.

Heather Steel, CTE Facilitator

A handwritten signature in blue ink that reads 'Teven Thomas'.

Tevyn Thomas, Biological Sciences Instructor

A handwritten signature in black ink that reads 'R Carpenter'.

Ryan Carpenter, Agriculture Education

# Elko County School District



## Superintendent's Office

Telephone (775) 738-5196 - Fax (775)738-5857  
850 Elm Street - Elko, Nevada 89801

February 9, 2023

To Whom It May Concern,

I have appointed Tevyn Thomas, who teaches Science at Elko High School, to serve on the Animal Systems Academic Credit Review Committee. If you have any questions please feel free to contact me.

Respectfully,

A handwritten signature in black ink, appearing to read "Clayton Anderson".

Clayton Anderson  
Superintendent  
Elko County School District

CA/kg

# Elko County School District



## Superintendent's Office

Telephone (775) 738-5196 - Fax (775)738-5857  
850 Elm Street - Elko, Nevada 89801

February 9, 2023

To Whom It May Concern,

I have appointed Ryan Carpenter who teaches Agriculture at Owyhee High School to serve on the Animal Systems Academic Credit Review Committee. If you have any questions please feel free to contact me.

Respectfully,

A handwritten signature in black ink, appearing to read "Clayton Anderson", written over a horizontal line.

Clayton Anderson  
Superintendent  
Elko County School District

CA/kg

# Elko County School District



Central Administrative Office  
Telephone (775) 738-5196 – Fax (775)738-0808  
850 Elm Street – Elko, Nevada 89801

Dear Parent or Guardian,

Your student is enrolled in the Career and Technical Education course **Animal Systems** that qualifies for academic credit. By successfully completing the CTE course your student may earn up to 1 credit in the academic area of science to count towards high school graduation.

Please note that while the academic credit earned through CTE coursework is designed to meet the requirements for high school graduation, the academic credit may not necessarily be accepted for academic credit by a specific postsecondary institution.

If you have further questions about this credit, please contact your student's counselor or CTE teacher.

Sincerely,

A handwritten signature in black ink that reads 'H Steel'. The signature is stylized, with the 'H' and 'S' being particularly prominent.

Heather Steel  
ECSD CTE Facilitator

# **Academic Credit for Career and Technical Education Coursework**

**Procedural Recommendations for Application Submissions to the  
Department of Education and State Board of Education**



Nevada Department of Education  
Office of Career Readiness, Adult Learning, and Education Options  
755 N. Roop Street, Suite 201  
Carson City, NV 89701  
(775) 687-7300

**July 2022**

## **Checklist for Application Packet to be sent to the State Board of Education Requesting Academic Credit for CTE course(s):**

- Submit the title of the career and technical education (CTE) course(s) and a statement of academic credit to be granted.
- Submit the letter of appointment/assignment of the committee members (at least one qualified classroom academic teacher and one qualified classroom CTE teacher).
- Submit written curriculum and alignment documents verifying the alignment of the CTE course standards with the academic standards to be taught in the CTE course(s).
- Copy of the minutes from the local Board of Trustees Meeting for State Board Approval OR a letter from school officials stating the application has been approved by the local Board of Education.
- Submit a copy of the student notification letter per NAC (Ref.389.72, Sec. 5).



# Curriculum Alignment Document

**Directions:** The curriculum must demonstrate how the CTE coursework aligns to the Nevada Academic Content Standards.

- 1) Identify the proposed academic credit (English, Math, Science, or Health)  
\*Contact the CTE office if you have questions regarding English credit.
- 2) Provide the name of the academic course (e.g., Life Science; Physical Science)
- 3) Provide the name of the CTE course(s) (e.g., Principles of Agriculture, Food, and Natural Resources and Animal Science; Biomedical I, Biomedical II, and Biomedical III)

Proposed Academic Credit (Check One)      Math      **Science**      Health

Name of Academic Course: 3<sup>rd</sup> year Science

Name of CTE Course(s): Animal Systems

Total Number of Academic Credits: 1

Total Number of CTE Credits: 1

Classroom Academic Teacher Name: Tevyn Chandler

Classroom Academic Teacher Subject: Biological Sciences

Classroom CTE Teacher Name: Ryan Carpenter

Classroom CTE Teacher Subject: Agriculture Education

## Science Standards Alignment Document

Insert the CTE Performance Indicator(s) in the right-side column which will meet the Science standard indicated in the left-side column. **Below is an example from the Principles of Agriculture, Food, and Natural Resources course.**

<i>Science: HS-Earth and Human Activity</i>	<i>CTE Performance Indicators (including text description)</i>
<i>HS-ESS3-1 Construct an explanation based on evidence for how the availability of natural resources, occurrence of natural hazards, and changes in climate have influenced human activity.</i>	<i>2.1.4 Discuss the role of modern agriculture in basic human needs by identifying products used to provide food, clothing, and shelter (e.g., world food security) (Chapter 1: The Science of Agriculture, World Food Security assignment)</i>

**Please enter appropriate/applicable alignments in the table below.**

Nevada Academic Science Standards (DCI)	CTE Performance Indicators (including text description)
<b>Science: HS-Matter and Its Interactions</b>	
HS-PS1-1 Use the periodic table as a model to predict the relative properties of elements based on the patterns of electrons in the outermost energy level of atoms	0
HS-PS1-2 Construct and revise an explanation for the outcome of a simple chemical reaction based on the outermost electron states of atoms, trends in the periodic table, and knowledge of the patterns of chemical properties	0
HS-PS1-3 Plan and conduct an investigation to gather evidence to compare the structure of substances at the bulk scale to infer the strength of electrical forces between particles.	0
HS-PS1-4 Develop a model to illustrate that the release or absorption of energy from a chemical reaction system depends upon the changes in total bond energy	<ul style="list-style-type: none"> <li>● 7.4.1 Differentiate between macronutrients and micronutrients                             <ul style="list-style-type: none"> <li>○ <a href="#">Plant Nutrition</a></li> </ul> </li> <li>● 7.4.2 Describe pH and how it is modified                             <ul style="list-style-type: none"> <li>○ <a href="#">Plant Nutrition</a></li> </ul> </li> <li>● 7.4.3 Describe the components of a fertilizer (e.g., nitrogen, phosphorus, potassium [NPK])                             <ul style="list-style-type: none"> <li>○ <a href="#">Plant Nutrition</a></li> </ul> </li> </ul>
HS-PS1-5 Apply scientific principles and evidence to provide an explanation about the effects of changing the temperature or concentration of the reacting particles on the rate at which a reaction occurs.	0
HS-PS1-5 Apply scientific principles and evidence to provide an explanation about the effects of changing the temperature or concentration of the reacting particles on the rate at which a reaction occurs.	0

Nevada Academic Science Standards (DCI)	CTE Performance Indicators (including text description)
HS-PS1-6 Refine the design of a chemical system by specifying a change in conditions that would produce increased amounts of products at equilibrium.	0
HS-PS1-7 Use mathematical representations to support the claim that atoms, and therefore mass, are conserved during a chemical reaction.	0
HS-PS1-8 Develop models to illustrate the changes in the composition of the nucleus of the atom and the energy released during the processes of fission, fusion, and radioactive decay	0
<b>Science: HS-Motion and Stability: Forces and Interactions</b>	
HS-PS2-1 Analyze data to support the claim that Newton’s second law of motion describes the mathematical relationship among the net force on a macroscopic object, its mass, and its acceleration.	0
HS-PS2-2 Use mathematical representations to support the claim that the total momentum of a system of objects is conserved when there is no net force on the system.	0
HS-PS2-3 Apply scientific and engineering ideas to design, evaluate, and refine a device that minimizes the force on a macroscopic object during a collision	0
HS-PS2-3 Apply scientific and engineering ideas to design, evaluate, and refine a device that minimizes the force on a macroscopic object during a collision	0
HS-PS2-5 Plan and conduct an investigation to provide evidence that an electric current can produce a magnetic field and that a changing magnetic field can produce an electric current	0
HS-PS2-6 Communicate scientific and technical information about why the molecular-level structure is important in the functioning of designed materials.	0
<b>Science: HS-Energy</b>	
HS-PS3-1 Create a computational model to calculate the change in the energy of one component in a system when the change in energy of the other component(s) and energy flows in and out of the system are known.	0

Nevada Academic Science Standards (DCI)	CTE Performance Indicators (including text description)
HS-PS3-2 Develop and use models to illustrate that energy at the macroscopic scale can be accounted for as a combination of energy associated with the motions of particles (objects) and energy associated with the relative position of particles (objects).	0
HS-PS3-3 Design, build, and refine a device that works within given constraints to convert one form of energy into another form of energy.	<ul style="list-style-type: none"> <li>● 6.4.2 Explore the major nutrients and their importance to animals <ul style="list-style-type: none"> <li>○ ICEV: <a href="#">Advanced Livestock Nutrition</a> (slides 55-103)</li> </ul> </li> </ul>
HS-PS3-4 Plan and conduct an investigation to provide evidence that the transfer of thermal energy when two components of different temperature are combined within a closed system results in a more uniform energy distribution among the components in the system (second law of thermodynamics).	0
HS-PS3-5 Develop and use a model of two objects interacting through electric or magnetic fields to illustrate the forces between objects and the changes in energy of the objects due to the interaction.	0
<b>Science: HS-Waves and Their Applications in Technologies on Information Transfer</b>	
HS-PS4-1 Use mathematical representations to support a claim regarding relationships among the frequency, wavelength, and speed of waves traveling in various media.	0
HS-PS4-2 Evaluate questions about the advantages of using a digital transmission and storage of information.	0
HS-PS4-3 Evaluate the claims, evidence, and reasoning behind the idea that electromagnetic radiation can be described either by a wave model or a particle model, and that for some situations one model is more useful than the other.	0
HS-PS4-4 Evaluate the validity and reliability of claims in published materials of the effects that different frequencies of electromagnetic radiation have when absorbed by matter.	0
HS-PS4-5 Communicate technical information about how some technological devices use the principles of wave behavior and wave interactions with matter to transmit and capture information and energy.	0
<b>Science: HS-From Molecules to Organisms: Structures and Processes</b>	
HS-LS1-1 Construct an explanation based on evidence for how the structure of DNA determines the structure of proteins	<ul style="list-style-type: none"> <li>● 6.1.1 Explain a cell's role and compare and contrast the types of cells (prokaryotic and eukaryotic)</li> </ul>

Nevada Academic Science Standards (DCI)	CTE Performance Indicators (including text description)
<p>which carry out the essential functions of life through systems of specialized cells.</p>	<ul style="list-style-type: none"> <li>○ <a href="#">Cells Lesson Plan and Sheets</a></li> <li>● 6.1.2 Analyze the components of an animal cell and explain their functions <ul style="list-style-type: none"> <li>○ iCEV: <a href="#">Plants &amp; Animals: What's the Difference</a> (slides 28-39)</li> </ul> </li> <li>● 6.1.3 Analyze the components of a plant cell and explain their functions <ul style="list-style-type: none"> <li>○ iCEV: <a href="#">Plants &amp; Animals: What's the Difference</a> (slides 17-27)</li> </ul> </li> <li>● 6.1.4 Differentiate between a plant and animal cell <ul style="list-style-type: none"> <li>○ iCEV: <a href="#">Plants &amp; Animals: What's the Difference</a> (slides 14-40)</li> </ul> </li> <li>● 12.5.3 Define blood and describe the cell structure and components of blood <ul style="list-style-type: none"> <li>○ <a href="#">Cardiovascular System</a></li> </ul> </li> <li>● 15.2.2 Examine the components of DNA and describe its structure <ul style="list-style-type: none"> <li>○ <a href="#">DNA Structure</a></li> </ul> </li> </ul>
<p>HS-LS1-2 Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.</p>	<ul style="list-style-type: none"> <li>● 6.4.1 Identify the major parts and describe the functions of the digestive systems in livestock <ul style="list-style-type: none"> <li>○ <a href="#">Digestive System and Nutrition</a></li> </ul> </li> <li>● 7.1.1 Identify and describe the parts of a flower <ul style="list-style-type: none"> <li>○ iCEV-<a href="#">Anatomy of Plants</a></li> </ul> </li> <li>● 7.1.2 Explain the purpose of a flower <ul style="list-style-type: none"> <li>○ iCEV-<a href="#">Anatomy of Plants</a></li> </ul> </li> <li>● 7.1.3 Identify and describe the parts of a root <ul style="list-style-type: none"> <li>○ iCEV-<a href="#">Anatomy of Plants</a></li> </ul> </li> <li>● 7.1.4 Explain the purpose of a root <ul style="list-style-type: none"> <li>○ iCEV-<a href="#">Anatomy of Plants</a></li> </ul> </li> <li>● 7.1.5 Identify and describe the parts of a stem <ul style="list-style-type: none"> <li>○ iCEV-<a href="#">Anatomy of Plants</a></li> </ul> </li> <li>● 7.1.6 Explain the purpose of a stem <ul style="list-style-type: none"> <li>○ iCEV-<a href="#">Anatomy of Plants</a></li> </ul> </li> <li>● 7.1.7 Identify and describe the parts of a leaf <ul style="list-style-type: none"> <li>○ iCEV-<a href="#">Anatomy of Plants</a></li> </ul> </li> <li>● 7.1.8 Explain the purpose of a leaf <ul style="list-style-type: none"> <li>○ iCEV-<a href="#">Anatomy of Plants</a></li> </ul> </li> <li>● 7.3.1 Explain the importance of plant propagation <ul style="list-style-type: none"> <li>○ iCEV-<a href="#">Plant Genetics</a></li> </ul> </li> <li>● 7.3.3 Identify and list the major parts of a seed <ul style="list-style-type: none"> <li>○ iCEV-<a href="#">Anatomy of Plants</a></li> </ul> </li> <li>● 7.3.4 List the function of each major part of a seed <ul style="list-style-type: none"> <li>○ iCEV-<a href="#">Anatomy of Plants</a></li> </ul> </li> <li>● 7.3.5 Describe and observe the process of seed germination <ul style="list-style-type: none"> <li>○ iCEV-<a href="#">Fundamental Plant Processes</a></li> </ul> </li> <li>● 7.3.6 Describe the process of fertilization and pollination <ul style="list-style-type: none"> <li>○ iCEV-<a href="#">Plant Genetics</a></li> </ul> </li> <li>● 12.1.1 Describe how the animal body is organized in terms of cells, tissues, organs, and organ systems <ul style="list-style-type: none"> <li>○ <a href="#">Plants and Animals, what's the difference?</a></li> </ul> </li> <li>● 12.1.2 List and briefly describe the major organ systems found in vertebrate animals</li> </ul>

Nevada Academic Science Standards (DCI)	CTE Performance Indicators (including text description)
	<ul style="list-style-type: none"> <li>○ <a href="#">Interconnectedness of Body Systems</a></li> <li>● 12.2.1 Examine and describe the functions of the musculoskeletal system <ul style="list-style-type: none"> <li>○ <a href="#">Structures and Functions of the Muscular System</a></li> </ul> </li> <li>● 12.3.1 Explain the integumentary system, and diagram the two layers of skin <ul style="list-style-type: none"> <li>○ <a href="#">Integumentary System</a></li> </ul> </li> <li>● 12.3.2 Identify components of the urinary system, examine its role, and explain the function of the kidneys, ureters, urinary bladder, and urethra <ul style="list-style-type: none"> <li>○ <a href="#">Urinary System</a></li> </ul> </li> <li>● 12.4.1 Identify and describe the functions of the glands that compose the endocrine system <ul style="list-style-type: none"> <li>○ <a href="#">Endocrine System</a></li> </ul> </li> <li>● 12.4.2 Identify and describe the functions of the organs that compose the nervous system <ul style="list-style-type: none"> <li>○ <a href="#">Nervous System</a></li> </ul> </li> <li>● 12.4.3 Describe the effect of hormones on behavior <ul style="list-style-type: none"> <li>○ <a href="#">Endocrine System</a></li> </ul> </li> <li>● 12.5.1 Identify the components of the respiratory system and describe the functions of the organs that compose the respiratory system <ul style="list-style-type: none"> <li>○ <a href="#">Respiratory System</a></li> </ul> </li> <li>● 12.5.2 Identify the components of the circulatory system, including identification of all major veins and arteries, and describe the functions of the organs that compose the circulatory system <ul style="list-style-type: none"> <li>○ <a href="#">Cardiovascular System</a></li> </ul> </li> <li>● 12.5.3 Define blood and describe the cell structure and components of blood <ul style="list-style-type: none"> <li>○ <a href="#">Cardiovascular System</a></li> </ul> </li> <li>● 12.5.4 Explain blood's role in the exchange of materials throughout the body <ul style="list-style-type: none"> <li>○ <a href="#">Cardiovascular System</a></li> </ul> </li> <li>● 12.6.1 Describe the structures and functions of a monogastric digestive system <ul style="list-style-type: none"> <li>○ <a href="#">Digestive System and Nutrition</a></li> </ul> </li> <li>● 12.6.2 Describe the structures and functions of a ruminant digestive system <ul style="list-style-type: none"> <li>○ <a href="#">Digestive System and Nutrition</a></li> </ul> </li> <li>● 12.6.3 Describe the structures and functions of a pseudo-ruminant digestive system <ul style="list-style-type: none"> <li>○ <a href="#">Digestive System and Nutrition</a></li> </ul> </li> <li>● 12.6.4 Investigate the differences of species based on digestive systems and diet types <ul style="list-style-type: none"> <li>○ <a href="#">Digestive System and Nutrition</a></li> </ul> </li> </ul>
<p>HS-LS1-3 Plan and conduct an investigation to provide evidence that feedback mechanisms maintain homeostasis.</p>	<ul style="list-style-type: none"> <li>● 13.1.6 Examine the role of feed additives and their impact on animal growth <ul style="list-style-type: none"> <li>○ <a href="#">Digestive System and Nutrition</a></li> </ul> </li> <li>● 14.3.1 Identify common reproductive diseases that affect animals and determine appropriate prevention and treatment methods <ul style="list-style-type: none"> <li>○ <a href="#">Animal Reproduction and Genetics</a></li> </ul> </li> </ul>

Nevada Academic Science Standards (DCI)	CTE Performance Indicators (including text description)
	<ul style="list-style-type: none"> <li>● 14.4.3 Examine how factors such as genetics, disease, feed, environment, and body condition affect milk production               <ul style="list-style-type: none"> <li>○ <a href="#">Animal Reproduction and Genetics</a></li> </ul> </li> <li>● 17.5.1 Explain how cleanliness affects disease control and compare antiseptics and disinfectants               <ul style="list-style-type: none"> <li>○ <a href="#">Disease Control and Management Practices</a></li> </ul> </li> </ul>
HS-LS1-4 Use a model to illustrate the role of cellular division (mitosis) and differentiation in producing and maintaining complex organisms.	0
HS-LS1-5 Use a model to illustrate how photosynthesis transforms light energy into stored chemical energy.	<ul style="list-style-type: none"> <li>● 7.2.1 Describe the process of photosynthesis               <ul style="list-style-type: none"> <li>○ <a href="#">Photosynthesis</a></li> </ul> </li> </ul>
HS-LS1-6 Construct and revise an explanation based on evidence for how carbon, hydrogen, and oxygen from sugar molecules may combine with other elements to form amino acids and/or other large carbon-based molecules.	<ul style="list-style-type: none"> <li>● 13.1.1 Explain the functions of feed and how they supply energy to livestock               <ul style="list-style-type: none"> <li>○ <a href="#">Basic Livestock Nutrition</a></li> </ul> </li> <li>● 13.1.4 Distinguish between good quality and poor-quality feedstuffs, and examine how processing methods (grinding, rolling, palletizing, etc.) improve palatability               <ul style="list-style-type: none"> <li>○ <a href="#">Basic Livestock Nutrition</a></li> </ul> </li> </ul>
HS-LS1-7 Use a model to illustrate that cellular respiration is a chemical process whereby the bonds of food molecules and oxygen molecules are broken and the bonds in new compounds are formed resulting in a net transfer of energy.	<ul style="list-style-type: none"> <li>● 7.2.2 Describe the process of cellular respiration               <ul style="list-style-type: none"> <li>○ <a href="#">Cellular Respiration</a></li> </ul> </li> <li>● 7.2.3 Explain the relationship between photosynthesis and respiration               <ul style="list-style-type: none"> <li>○ <a href="#">Photosynthesis</a></li> <li>○ <a href="#">Cellular Respiration</a></li> </ul> </li> <li>● 7.2.4 Summarize why photosynthesis and respiration are important to human beings               <ul style="list-style-type: none"> <li>○ <a href="#">Photosynthesis</a></li> <li>○ <a href="#">Cellular Respiration</a></li> </ul> </li> <li>● 13.1.3 Compare and contrast the types of feedstuffs (roughages, concentrates, supplements/additives, and byproducts)               <ul style="list-style-type: none"> <li>○ <a href="#">Feedstuffs</a></li> </ul> </li> <li>● 13.1.6 Examine the role of feed additives and their impact on animal growth               <ul style="list-style-type: none"> <li>○ <a href="#">Digestive System and Nutrition</a></li> </ul> </li> <li>● 13.2.3 Discuss how nutritional information is used in developing rations               <ul style="list-style-type: none"> <li>○ <a href="#">Digestive System and Nutrition</a></li> </ul> </li> </ul>
<b>Science: HS-Ecosystems: Interactions, Energy, and Dynamics</b>	
HS-LS2-1 Use mathematical and/or computational representations to support explanations of factors that affect carrying capacity of ecosystems at different scales.	0

Nevada Academic Science Standards (DCI)	CTE Performance Indicators (including text description)
HS-LS2-2 Use mathematical representations to support and revise explanations based on evidence about factors affecting biodiversity and populations in ecosystems of different scales.	0
HS-LS2-3 Construct and revise an explanation based on evidence for the cycling of matter and flow of energy in aerobic and anaerobic conditions.	0
HS-LS2-4 Use mathematical representations to support claims for the cycling of matter and flow of energy among organisms in an ecosystem.	<ul style="list-style-type: none"> <li>● 11.4.4 Diagram and explain the nitrogen, phosphorus, carbon, and water cycle               <ul style="list-style-type: none"> <li>○ <a href="#">Understanding Groundwater Systems</a></li> </ul> </li> </ul>
HS-LS2-5 Develop a model to illustrate the role of photosynthesis and cellular respiration in the cycling of carbon among the biosphere, atmosphere, hydrosphere, and geosphere.	<ul style="list-style-type: none"> <li>● 11.4.4 Diagram and explain the nitrogen, phosphorus, carbon, and water cycle               <ul style="list-style-type: none"> <li>○ <a href="#">Understanding Groundwater Systems</a></li> </ul> </li> </ul>
HS-LS2-6 Evaluate the claims, evidence, and reasoning that the complex interactions in ecosystems maintain relatively consistent numbers and types of organisms in stable conditions, but changing conditions may result in a new ecosystem.	<ul style="list-style-type: none"> <li>● 11.4.3 Identify biomes and explain ecosystem diversity               <ul style="list-style-type: none"> <li>○ <a href="#">Biodiversity</a></li> </ul> </li> </ul>
HS-LS2-7 Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.	<ul style="list-style-type: none"> <li>● 11.2.1 Recognize how humans use natural resources               <ul style="list-style-type: none"> <li>○ <a href="#">Natural Resources</a></li> </ul> </li> <li>● 11.2.2 Identify the urban and rural impacts of natural resource use               <ul style="list-style-type: none"> <li>○ <a href="#">Natural Resources</a></li> </ul> </li> <li>● 11.2.3 Analyze the impact of recycling and reusing resources               <ul style="list-style-type: none"> <li>○ <a href="#">Natural Resources</a></li> </ul> </li> <li>● 11.4.3 Identify biomes and explain ecosystem diversity               <ul style="list-style-type: none"> <li>○ <a href="#">Biodiversity</a></li> </ul> </li> <li>● 15.1.3 Identify current industry standards for animal selection according to species               <ul style="list-style-type: none"> <li>○ <a href="#">Animal Selection and Classification</a></li> </ul> </li> <li>● 16.3.1 Compare and contrast current controversial issues in animal agriculture               <ul style="list-style-type: none"> <li>○ <a href="#">Animal Rights vs Animal Welfare</a></li> </ul> </li> <li>● 16.3.3 Compare and contrast cultural differences and their impact on animal use               <ul style="list-style-type: none"> <li>○ <a href="#">Cultural Perceptions of Animals</a></li> </ul> </li> </ul>
HS-LS2-8 Evaluate the evidence for the role of group behavior on individual and species' chances to survive and reproduce.	<ul style="list-style-type: none"> <li>● 11.4.2 Explain natural selection and succession               <ul style="list-style-type: none"> <li>○ <a href="#">Natural Selection</a></li> </ul> </li> <li>● 18.1.1 Recognize the advantages and disadvantages of beef production operations               <ul style="list-style-type: none"> <li>○ <a href="#">Beef Production Systems Lesson Plan</a></li> </ul> </li> <li>● 18.1.2 Determine the facility and equipment needs in beef production operations               <ul style="list-style-type: none"> <li>○ <a href="#">Beef Production Systems Lesson Plan</a></li> </ul> </li> </ul>



Nevada Academic Science Standards (DCI)	CTE Performance Indicators (including text description)
	<ul style="list-style-type: none"> <li>● 18.1.3 Compare and contrast the types of beef-production systems and their challenges <ul style="list-style-type: none"> <li>○ <a href="#">Beef Production Systems Lesson Plan</a></li> </ul> </li> <li>● 18.1.4 Analyze the components and challenges of a cow-calf, backgrounding, and finishing operations and examine the factors that affect their profitability <ul style="list-style-type: none"> <li>○ <a href="#">Beef Production Systems Lesson Plan</a></li> </ul> </li> <li>● 18.2.2 Recognize the advantages and disadvantages of dairy production operations <ul style="list-style-type: none"> <li>○ <a href="#">Dairy Production Lesson Plan</a></li> </ul> </li> <li>● 18.2.3 Determine the facility and equipment needs in dairy production operations <ul style="list-style-type: none"> <li>○ <a href="#">Dairy Production Lesson Plan</a></li> </ul> </li> <li>● 18.2.4 Compare and contrast the types of dairy-production systems and their challenges and analyze the components and challenges of each <ul style="list-style-type: none"> <li>○ <a href="#">Dairy Production Lesson Plan</a></li> </ul> </li> <li>● 18.3.1 Recognize the advantages and disadvantages of swine production operations <ul style="list-style-type: none"> <li>○ <a href="#">Swine Production Lesson Plan</a></li> </ul> </li> <li>● 18.3.2 Determine the facility and equipment needs in swine production operations <ul style="list-style-type: none"> <li>○ <a href="#">Swine Production Lesson Plan</a></li> </ul> </li> <li>● 18.3.3 Compare and contrast the types of swine-production systems and their challenges and analyze the components and challenges of each <ul style="list-style-type: none"> <li>○ <a href="#">Swine Production Lesson Plan</a></li> </ul> </li> <li>● 18.4.1 Recognize the advantages and disadvantages of sheep and goat production operations <ul style="list-style-type: none"> <li>○ <a href="#">Sheep and Goat Production Lesson Plan</a></li> </ul> </li> <li>● 18.4.2 Determine the facility and equipment needs in sheep and goat production operations <ul style="list-style-type: none"> <li>○ <a href="#">Sheep and Goat Production Lesson Plan</a></li> </ul> </li> <li>● 18.4.3 Compare and contrast the types of sheep and goat systems and their challenges and analyze the components and challenges of each (e.g., fiber, meat, dairy) <ul style="list-style-type: none"> <li>○ <a href="#">Sheep and Goat Production Lesson Plan</a></li> </ul> </li> <li>● 18.5.1 Recognize the advantages and disadvantages of the different poultry production operations <ul style="list-style-type: none"> <li>○ <a href="#">Poultry Production Lesson Plan</a></li> </ul> </li> <li>● 18.5.2 Determine the facility and equipment needs in poultry production operations (free range, housed) <ul style="list-style-type: none"> <li>○ <a href="#">Poultry Production Lesson Plan</a></li> </ul> </li> <li>● 18.5.3 Analyze the components and challenges of poultry operations and examine the factors that affect their profitability (e.g., feathers, broiler, layer) <ul style="list-style-type: none"> <li>○ <a href="#">Poultry Production Lesson Plan</a></li> </ul> </li> <li>● 18.5.4 Compare and contrast the types of poultry production systems and their challenges (e.g., chicken, turkey, game birds, exotics) <ul style="list-style-type: none"> <li>○ <a href="#">Poultry Production Lesson Plan</a></li> </ul> </li> </ul>

Nevada Academic Science Standards (DCI)	CTE Performance Indicators (including text description)
	<ul style="list-style-type: none"> <li>● 18.5.5 Analyze the components and challenges of each type of poultry production (e.g., chicken, turkey, game birds, exotics) <ul style="list-style-type: none"> <li>○ <a href="#">Poultry Production Lesson Plan</a></li> </ul> </li> <li>● 18.6.1 Recognize the advantages and disadvantages of equine production operations <ul style="list-style-type: none"> <li>○ <a href="#">Equine Industry</a></li> </ul> </li> <li>● 18.6.2 Determine the facility and equipment needs in equine production operations <ul style="list-style-type: none"> <li>○ <a href="#">Buildings for Horses</a></li> </ul> </li> <li>● 18.6.3 Compare and contrast the types of equine production systems and their challenges and analyze the components and challenges of each (e.g., work, sport, therapy) <ul style="list-style-type: none"> <li>○ <a href="#">Donkeys and Mules</a></li> </ul> </li> <li>● 20.1.1 Compare and contrast range/pasture ecosystems and their monitoring systems <ul style="list-style-type: none"> <li>○ <a href="#">Forage Production</a></li> </ul> </li> <li>● 20.1.2 Compare and contrast grazing systems <ul style="list-style-type: none"> <li>○ <a href="#">Sustainable Grazing</a></li> </ul> </li> </ul>
<b>Science: HS-Heredity: Inheritance and Variation of Traits</b>	
<p>HS-LS3-1 Ask questions to clarify relationships about the role of DNA and chromosomes in coding the instructions for characteristic traits passed from parents to offspring.</p>	<ul style="list-style-type: none"> <li>● 11.4.2 Explain natural selection and succession <ul style="list-style-type: none"> <li>○ <a href="#">Natural Selection</a></li> </ul> </li> <li>● 14.2.2 Describe the process and purpose of fertilization, the gestation length, and parturition in livestock species <ul style="list-style-type: none"> <li>○ <a href="#">Animal Reproduction and Genetics</a></li> </ul> </li> <li>● 14.3.2 Discuss reproduction management practices, including artificial insemination and natural breeding, and determine how they affect reproductive performance <ul style="list-style-type: none"> <li>○ <a href="#">Animal Reproduction and Genetics</a></li> </ul> </li> <li>● 14.3.4 Research the advancement of reproductive technology (e.g., estrous synchronization, semen sexing, embryo transfer, cloning, and genetic engineering) <ul style="list-style-type: none"> <li>○ <a href="#">Animal Reproduction and Genetics</a></li> </ul> </li> <li>● 15.1.2 Classify animals and their characteristics based on phenotype <ul style="list-style-type: none"> <li>○ <a href="#">Heritability of Traits Lesson Plan</a></li> </ul> </li> <li>● 15.2.3 Explain the principles of dominance and incomplete dominance <ul style="list-style-type: none"> <li>○ <a href="#">Heritability of Traits Lesson Plan</a></li> </ul> </li> <li>● 15.2.4 Explain the results of independent assortment <ul style="list-style-type: none"> <li>○ <a href="#">Heritability of Traits Lesson Plan</a></li> </ul> </li> </ul>
<p>HS-LS3-2 Make and defend a claim based on evidence that inheritable genetic variations may result from: (1) new genetic combinations through meiosis, (2) viable errors occurring during replication, and/or (3) mutations caused by environmental factors.</p>	<ul style="list-style-type: none"> <li>● 11.4.2 Explain natural selection and succession <ul style="list-style-type: none"> <li>○ <a href="#">Natural Selection</a></li> </ul> </li> <li>● 14.1.1 Define and explain the steps of spermatogenesis and oogenesis, and describe sperm and egg cellular characteristics <ul style="list-style-type: none"> <li>○ <a href="#">Animal Reproduction and Genetics</a></li> </ul> </li> </ul>

Nevada Academic Science Standards (DCI)	CTE Performance Indicators (including text description)
	<ul style="list-style-type: none"> <li>● 14.3.2 Discuss reproduction management practices, including artificial insemination and natural breeding, and determine how they affect reproductive performance <ul style="list-style-type: none"> <li>○ <a href="#">Animal Reproduction and Genetics</a></li> </ul> </li> <li>● 14.3.4 Research the advancement of reproductive technology (e.g., estrous synchronization, semen sexing, embryo transfer, cloning, and genetic engineering) <ul style="list-style-type: none"> <li>○ <a href="#">Animal Reproduction and Genetics</a></li> </ul> </li> <li>● 15.2.1 Describe the importance of understanding genetics and recognize the impact of Gregor Mendel’s development of the basic principles of heredity <ul style="list-style-type: none"> <li>○ iCEV: Advanced Animal Genetics <a href="#">Video Transcript</a></li> </ul> </li> </ul>
<p>HS-LS3-3 Apply concepts of statistics and probability to explain the variation and distribution of expressed traits in a population</p>	<ul style="list-style-type: none"> <li>● 14.1.1 Define and explain the steps of spermatogenesis and oogenesis, and describe sperm and egg cellular characteristics <ul style="list-style-type: none"> <li>○ iCEV: <a href="#">Basic Reproduction of Animals</a></li> </ul> </li> <li>● 14.3.2 Discuss reproduction management practices, including artificial insemination and natural breeding, and determine how they affect reproductive performance <ul style="list-style-type: none"> <li>○ <a href="#">Animal Reproduction and Genetics</a></li> </ul> </li> <li>● 14.3.4 Research the advancement of reproductive technology (e.g., estrous synchronization, semen sexing, embryo transfer, cloning, and genetic engineering) <ul style="list-style-type: none"> <li>○ <a href="#">Animal Reproduction and Genetics</a></li> </ul> </li> <li>● 15.2.5 Predict the genotypes and phenotypes and sex from monohybrid and dihybrid crosses by using the Punnett square <ul style="list-style-type: none"> <li>○ <a href="#">Animal Reproduction and Genetics</a></li> </ul> </li> </ul>
<p><b>Science: HS-Biological Evolution: Unity and Diversity</b></p>	
<p>HS-LS4-1 Communicate scientific information that common ancestry and biological evolution are supported by multiple lines of empirical evidence.</p>	<p>0</p>
<p>HS-LS4-2 Construct an explanation based on evidence that the process of evolution primarily results from four factors: (1) the potential for a species to increase in number, (2) the heritable genetic variation of individuals in a species due to mutation and sexual reproduction, (3) competition for limited resources, and (4) the proliferation of those organisms that are better able to survive and reproduce in the environment.</p>	<p>0</p>
<p>HS-LS4-3 Apply concepts of statistics and probability to support explanations that organisms with an advantageous heritable trait tend to increase in proportion to organisms lacking this trait.</p>	<p>0</p>

Nevada Academic Science Standards (DCI)	CTE Performance Indicators (including text description)
HS-LS4-4 Construct an explanation based on evidence for how natural selection leads to adaptation of populations.	<ul style="list-style-type: none"> <li>● 11.4.2 Explain natural selection and succession               <ul style="list-style-type: none"> <li>○ <a href="#">Natural Selection</a></li> </ul> </li> </ul>
HS-LS4-5 Evaluate the evidence supporting claims that changes in environmental conditions may result in: (1) increases in the number of individuals of some species, (2) the emergence of new species over time, and (3) the extinction of other species.	0
HS-LS4-6 Create or revise a simulation to test a solution to mitigate adverse impacts of human activity on biodiversity	0
<b>Science: HS-Earth's Place in the Universe</b>	
HS-ESS1-1 Develop a model based on evidence to illustrate the life span of the sun and the role of nuclear fusion in the sun's core to release energy that eventually reaches Earth in the form of radiation.	0
HS-ESS1-2 Construct an explanation of the Big Bang theory based on astronomical evidence of light spectra, motion of distant galaxies, and composition of matter in the universe.	0
HS-ESS1-3 Communicate scientific ideas about the way stars, over their life cycle, produce elements.	0
HS-ESS1-4 Use mathematical or computational representations to predict the motion of orbiting objects in the solar system.	0
HS-ESS1-5 Evaluate evidence of the past and current movements of continental and oceanic crust and the theory of plate tectonics to explain the ages of crustal rocks.	0
HS-ESS1-6 Apply scientific reasoning and evidence from ancient Earth materials, meteorites, and other planetary surfaces to construct an account of Earth's formation and early history.	<ul style="list-style-type: none"> <li>● 8.1.4 Identify various soil structures, their formation, and importance in agriculture production               <ul style="list-style-type: none"> <li>○ <a href="#">Soil Texture and Structure</a></li> </ul> </li> </ul>
<b>Science: HS-Earth's Systems</b>	
HS-ESS2-1 Develop a model to illustrate how Earth's internal and surface processes operate at different spatial and temporal scales to form continental and ocean-floor features.	0
HS-ESS2-2 Analyze geoscience data to make the claim that one change to Earth's surface can create feedbacks that cause changes to other Earth systems.	<ul style="list-style-type: none"> <li>● 8.1.4 Identify various soil structures, their formation, and importance in agriculture production               <ul style="list-style-type: none"> <li>○ <a href="#">Soil Texture and Structure</a></li> </ul> </li> <li>● 11.5.3 Identify Nevada's ecoregions (Sierra Nevada, Northern Basin and Range, Central Basin and Range, and Mojave Basin and Range)</li> </ul>

Nevada Academic Science Standards (DCI)	CTE Performance Indicators (including text description)
	<ul style="list-style-type: none"> <li>○ <a href="#">Biodiversity</a></li> </ul>
HS-ESS2-3 Develop a model based on evidence of Earth’s interior to describe the cycling of matter by thermal convection.	0
HS-ESS2-4 Use a model to describe how variations in the flow of energy into and out of Earth’s systems result in changes in climate.	0
HS-ESS2-5 Plan and conduct an investigation of the properties of water and its effects on Earth materials and surface processes.	<ul style="list-style-type: none"> <li>● 11.4.4 Diagram and explain the nitrogen, phosphorus, carbon, and water cycle <ul style="list-style-type: none"> <li>○ <a href="#">Understanding Groundwater Systems</a></li> </ul> </li> </ul>
HS-ESS2-6 Develop a quantitative model to describe the cycling of carbon among the hydrosphere, atmosphere, geosphere, and biosphere.	<ul style="list-style-type: none"> <li>● 11.4.4 Diagram and explain the nitrogen, phosphorus, carbon, and water cycle <ul style="list-style-type: none"> <li>○ <a href="#">Understanding Groundwater Systems</a></li> </ul> </li> </ul>
HS-ESS2-7 Construct an argument based on evidence about the simultaneous coevolution of Earth’s systems and life on Earth.	0
<b>Science: HS-Earth and Human Activity</b>	
HS-ESS3-1 Construct an explanation based on evidence for how the availability of natural resources, occurrence of natural hazards, and changes in climate have influenced human activity.	<ul style="list-style-type: none"> <li>● 11.1.1 Define and identify types of natural resources <ul style="list-style-type: none"> <li>○ <a href="#">Natural Resources</a></li> </ul> </li> <li>● 11.1.2 Distinguish between renewable and nonrenewable resources <ul style="list-style-type: none"> <li>○ <a href="#">Natural Resources</a></li> </ul> </li> <li>● 11.1.3 Compare the difference between inexhaustible and exhaustible resources <ul style="list-style-type: none"> <li>○ <a href="#">Natural Resources</a></li> </ul> </li> <li>● 11.2.1 Recognize how humans use natural resources <ul style="list-style-type: none"> <li>○ <a href="#">Natural Resources</a></li> </ul> </li> <li>● 11.2.2 Identify the urban and rural impacts of natural resource use <ul style="list-style-type: none"> <li>○ <a href="#">Natural Resources</a></li> </ul> </li> <li>● 11.2.3 Analyze the impact of recycling and reusing resources <ul style="list-style-type: none"> <li>○ <a href="#">Natural Resources</a></li> </ul> </li> <li>● 11.4.3 Identify biomes and explain ecosystem diversity <ul style="list-style-type: none"> <li>○ <a href="#">Biodiversity</a></li> </ul> </li> <li>● 11.5.2 Define multiple use <ul style="list-style-type: none"> <li>○ <a href="#">Public Lands</a></li> </ul> </li> </ul>
HS-ESS3-2 Evaluate competing design solutions for developing, managing, and utilizing energy and mineral resources based on cost-benefit ratios.	<ul style="list-style-type: none"> <li>● 11.1.2 Distinguish between renewable and nonrenewable resources <ul style="list-style-type: none"> <li>○ <a href="#">Natural Resources</a></li> </ul> </li> <li>● 11.1.3 Compare the difference between inexhaustible and exhaustible resources <ul style="list-style-type: none"> <li>○ <a href="#">Natural Resources</a></li> </ul> </li> <li>● 11.2.3 Analyze the impact of recycling and reusing resources <ul style="list-style-type: none"> <li>○ <a href="#">Natural Resources</a></li> </ul> </li> </ul>

Nevada Academic Science Standards (DCI)	CTE Performance Indicators (including text description)
HS-ESS3-3 Create a computational simulation to illustrate the relationships among management of natural resources, the sustainability of human populations, and biodiversity.	<ul style="list-style-type: none"> <li>● 11.2.1 Recognize how humans use natural resources               <ul style="list-style-type: none"> <li>○ <a href="#">Natural Resources</a></li> </ul> </li> </ul>
HS-ESS3-4 Evaluate or refine a technological solution that reduces impacts of human activities on natural systems.	<ul style="list-style-type: none"> <li>● 11.2.3 Analyze the impact of recycling and reusing resources               <ul style="list-style-type: none"> <li>○ <a href="#">Natural Resources</a></li> </ul> </li> <li>● 11.2.1 Recognize how humans use natural resources               <ul style="list-style-type: none"> <li>○ <a href="#">Natural Resources</a></li> </ul> </li> </ul>
HS-ESS3-5 Analyze geoscience data and the results from global climate models to make an evidence-based forecast of the current rate of global or regional climate change and associated future impacts to Earth systems.	0
HS-ESS3-6 Use a computational representation to illustrate the relationships among Earth systems and how those relationships are being modified due to human activity.	0
<b>Science: HS-Engineering Design</b>	
HS-ETS1-1 Analyze a major global challenge to specify qualitative and quantitative criteria and constraints for solutions that account for societal needs and wants.	<ul style="list-style-type: none"> <li>● 2.1.3 Describe the various components of the agriculture industry (e.g., value chain)               <ul style="list-style-type: none"> <li>○ <a href="#">National FFA Organization World Hunger: A Growing Concern Lesson 1</a></li> </ul> </li> <li>● 2.3.1 Analyze the impact of agriculture on the local, state, national, and world economies               <ul style="list-style-type: none"> <li>○ <a href="#">Government Agencies Lesson</a></li> </ul> </li> <li>● 2.3.2 Explain the role of government in the world’s food supply               <ul style="list-style-type: none"> <li>○ <a href="#">Government Agencies Lesson</a></li> </ul> </li> </ul>
HS-ETS1-2 Design a solution to a complex real-world problem by breaking it down into smaller, more manageable problems that can be solved through engineering.	<ul style="list-style-type: none"> <li>● 2.1.5 Discuss the role of diverse cultures in developing American agriculture practices               <ul style="list-style-type: none"> <li>○ <a href="#">Trends in Agriculture</a></li> </ul> </li> <li>● 2.2.2 Organize the major technological developments that have occurred in agriculture               <ul style="list-style-type: none"> <li>○ <a href="#">National FFA Organization</a></li> </ul> </li> <li>● 2.2.3 Interpret historical events and trends that have led to the development of today’s agriculture industry               <ul style="list-style-type: none"> <li>○ <a href="#">National FFA Organization</a></li> </ul> </li> </ul>
HS-ETS1-3 Evaluate a solution to a complex real-world problem based on prioritized criteria and trade-offs that account for a range of constraints, including cost, safety, reliability, and aesthetics, as well as possible social, cultural, and environmental impacts.	<ul style="list-style-type: none"> <li>● 2.1.2 Describe the importance and value of global agricultural trade               <ul style="list-style-type: none"> <li>○ <a href="#">Ag Issues In WTO Trade Negotiations</a></li> </ul> </li> <li>● 2.3.1 Analyze the impact of agriculture on the local, state, national, and world economies               <ul style="list-style-type: none"> <li>○ <a href="#">Government Agencies Lesson</a></li> </ul> </li> <li>● 2.3.2 Explain the role of government in the world’s food supply               <ul style="list-style-type: none"> <li>○ <a href="#">National FFA Organization</a></li> </ul> </li> </ul>

Nevada Academic Science Standards (DCI)	CTE Performance Indicators (including text description)
HS-ETS1-4 Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.	0
<b>Total number of unique Science Standards addressed:</b>	<b>28</b>
<b>Total number of unique CTE Standards aligned:</b>	<b>104</b>

## Student Notification / Sample Letter for District Use

Dear Parent/Guardian of:

Your son/daughter is enrolled in the career and technical education (CTE) program of study that qualifies for academic credit. By successfully completing the CTE coursework, he/she may earn up to \_\_\_\_\_ credit in the academic area of \_\_\_\_\_.

Please note that while the academic credit earned through CTE coursework is designed to meet the requirements for high school graduation, the academic credit may not necessarily be accepted for academic credit by a specific postsecondary institution.

Sincerely,

**Signature**

**Printed Name**