Career and Technical Education  
Course Blueprint of Essential Standards

Agriculture Education

AA21 Animal Science I

Public Schools of North Carolina  
State Board of Education • Department of Public Instruction  
Division of Career and Technical Education  
Ms. Sherilee Deal, Project Director

Raleigh, North Carolina  
Summer 2001  
Updated Summer, 2013

This blueprint was created through the assistance of various agricultural education instructors across the state. Input for the updated version of the blueprint was supplied through an anonymous survey. Thank you to those teachers who provided feedback through this survey.

Any individuals who reviewed content, contributed activities, or provided other direct assistance in the development of the instructional outline are listed in the acknowledgements section of the curriculum guide.

This blueprint has been reviewed by business and industry representatives for technical content and appropriateness for the industry. Contact agedcourses@ncsu.edu for more information.
Updated CTE Course Blueprint of Essential Standards

This document lays out the essential standards and objectives for the course and reflects the intended level of learning as C1, C2, or C3. Essential standards are big, powerful ideas necessary and essential for students to know to be successful in a course and translate to the next level of education or world of work. They identify the appropriate verb and cognitive process intended for the student to accomplish.

This document will help teachers plan for curriculum delivery for the course by providing the relative weights of the units, essential standards, and objectives within the course to help teachers prepare daily lesson plans, and construct valid formative, benchmark, and summative assessments. Assessment for this course is written at the level of the objective.

Career and Technical Student Organizations (CTSO) are an integral part of this curriculum. CTSOs are strategies used to teach course content, develop leadership, citizenship, responsibility, and proficiencies related to workplace needs.

For additional information about this blueprint, contact the Division of Career and Technical Education, North Carolina Department of Public Instruction, 6361 Mail Service Center, Raleigh, North Carolina 27699-6361.

<table>
<thead>
<tr>
<th>No.</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heading</td>
<td>Essential Std # Obj #</td>
<td>Unit Titles, Essential Standards, and Objectives</td>
<td>Local Use</td>
<td>Course Weight</td>
<td>Cognitive Process</td>
<td>Core or Supplemental</td>
</tr>
<tr>
<td>Column information</td>
<td>Essential standard and objective numbers.</td>
<td>Statements of unit titles, essential standards per unit, and specific objectives per essential standard. If applicable, includes % for each objective.</td>
<td>Space for use by Local Education Agencies.</td>
<td>Shows the relative importance of each unit and essential standard. Course weight is used to help determine the percentage of total class time to be spent on each essential standard.</td>
<td>Classification of outcome behavior in essential standards and objectives: C1 is Remember C2 is Understand C3 is Apply, analyze, evaluate.</td>
<td>Indicates whether the content is core (essential for student learning) or supplemental (enhances student learning beyond core). Only core content is included on CTE post assessments.</td>
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Updated CTE Course Blueprint of Essential Standards for
AA21 Animal Science I
(Recommended hours of instruction: 135 block, 150 regular)

<table>
<thead>
<tr>
<th>ES #</th>
<th>Obj. #</th>
<th>Units, Essential Standards, and Objectives (The Learner will be able to:)</th>
<th>Local Use</th>
<th>Course Weight</th>
<th>Cognitive Process</th>
<th>Core or Supplemental</th>
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<tbody>
<tr>
<td>1</td>
<td></td>
<td>Total Course Weight</td>
<td></td>
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<td>100%</td>
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A. LEADERSHIP & SUPERVISED AGRICULTURAL EXPERIENCE 18%

1.00 Understand leadership opportunities in animal science. 9% C2 Core
1.01 Understand organizations available for students in animal science. 4% C2 Core
1.02 Understand parliamentary procedure abilities and public speaking skills. 5% C2 Core

B. ANIMAL EVALUATION 26%

3.00 Remember terminology relevant to animal agriculture. 10% C1 Core
3.01 Recall animal breed and sex terminology. 6% C1 Core
3.02 Recall retail and wholesale cuts of meat. 4% C1 Core

4.00 Understand agriculture animals 16% C2 Core
4.01 Classify traits for selection of animals. 7% C2 Core
4.02 Understand quality features of beef, pork and poultry. 9% C2 Core

C. ANIMAL AGRICULTURE & MANAGEMENT 26%

5.00 Understand the impact of animal agriculture. 13% C2 Core
5.01 Explain the economic impact of animal agriculture. 6% C2 Core
5.02 Understand the process for producing, breeding & marketing agriculture animals. 7% C2 Core

6.00 Understand animal management. 13% C2 Core
6.01 Understand animal husbandry. 7% C2 Core
6.02 Classify animal and financial records. 6% C2 Core

D. ANIMAL PHYSIOLOGY 30%

7.00 Understand animal digestion. 15% C2 Core
7.01 Classify animal feeds. 7% C2 Core
7.02 Understand the digestive process. 8% C2 Core

8.00 Understand animal reproduction. 15% C2 Core
8.01 Understand animal reproduction and parturition. 8% C2 Core
8.02 Understand genetics of animal breeding. 7% C2 Core