



# Initial or Alternative Teacher License Evaluation Worksheet

Demonstration of Professional Competencies and Depth of Content Knowledge

Agriculture, Food, and Natural Resources (Grades 7-12)

## Applicant

Legal name:

Date:

## Requirements

Endorsement content knowledge must be demonstrated by at least one of the following measures for each content area (check below). Please note, if you select a portfolio option to demonstrate a content knowledge category, it is your responsibility to ensure that evidence provided aligns with the Colorado Department of Education's teacher preparation standards. For more information about educator preparation standards, please see [this webpage](#). To learn more about content covered on Praxis exams, please visit [this webpage](#).

### Agriculture, Food, and Natural Resources

- Praxis 5701: Official score report required (147 or higher)
- Coursework: Minimum of B- (list in grid below); syllabi and official transcript required
- Portfolio: Evidence demonstrating attainment of standards outlined below required

In the grid below, list the evidence by which you are demonstrating content knowledge. It is essential that thorough and complete information is provided for each row inclusive of listing all courses and evidence being utilized. Praxis subscores may be one piece of evidence for a section of content and also must be accompanied by additional evidence such as coursework.

AGRICULTURE, FOOD, AND NATURAL RESOURCES	Praxis Test Code/Name and Score:	
Categories for which you must demonstrate content knowledge	Course #(s)/Title(s) and Grade(s)	Portfolio Description and Evidence
Candidates must possess knowledge of concepts, including:		
<b>Agribusiness Systems</b> <ul style="list-style-type: none"> <li>• Agribusiness industry to include standards, business models, marketing, management skills and record keeping.</li> <li>• Financial aspects of agribusiness</li> <li>• Example courses include the following: agricultural communications and policy, agricultural mechanical technology, agricultural business and marketing</li> </ul>		
<b>Animal Systems</b> <ul style="list-style-type: none"> <li>• History and trends of animal systems industry as well as animal production and management</li> </ul>		



<ul style="list-style-type: none"> <li>• Classification of animals, animal behavior, reproduction, and the proper health care and nutrition</li> <li>• Proper design, facility use, and equipment use for safe and efficient production</li> <li>• Environment, animal welfare and rights as well as associated responsibilities as a producer</li> <li>• Example courses include the following: courses that address the above bullets for this section</li> </ul>		
<p>Food Science and Biotechnology Systems</p> <ul style="list-style-type: none"> <li>• Food products and processing</li> <li>• Food safety, sanitation and practices</li> <li>• Food nutrition</li> <li>• Genetic engineering concepts</li> <li>• Ethics of biotechnology</li> <li>• Example courses include the following: agricultural science and biotechnology, food and fiber production, food science</li> </ul>		
<p>Environmental and Natural Resource Systems</p> <ul style="list-style-type: none"> <li>• Environmental science and natural resources</li> <li>• Proper safety and protective equipment usage</li> <li>• Example courses include the following: environmental/natural resources, forestry</li> </ul>		
<p>Plant Systems</p> <ul style="list-style-type: none"> <li>• Plant science, systems, classification, anatomy, soil characteristics</li> <li>• Plant production and management and associated environmental factors for horticultural and agronomic crops</li> <li>• Example courses include the following: food and fiber production, plant and landscape systems</li> </ul>		
<p>Power, Structural, and Technical Systems</p> <ul style="list-style-type: none"> <li>• Various power and energy principles, sources and systems</li> <li>• Proper management of hazardous materials and safe operation of equipment</li> <li>• Principles of mechanics, structures, metal/welding and water systems</li> <li>• Example courses include the following: agricultural mechanical technology, welding</li> </ul>		



<p>Leadership and Career Development</p> <ul style="list-style-type: none"><li>• Leadership principles, career development and opportunities, communication skills, and research skills</li><li>• The National FFA Organization and supervised agricultural experiences as well as local programs and management</li><li>• Example courses include the following: courses that address the above bullets for this section</li></ul>		
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Submission of this worksheet must be accompanied by all evidence listed in the grid above. You must receive approval prior to submitting an application for an initial teacher license.