

Cluster: Agriculture, Food & Natural Resources			
Administrative Rule	Endorsement Name	Old Rules	New Rules
<p>OLD: 24:15:06:10</p> <p>NEW: 24:15:10:09</p>	<p>Agriculture, Food &amp; Natural Resources Cluster Endorsement</p>	<p>Requires the passage of the designated state test and 26 semester hours in agriculture, food, and natural resources content coursework, which include: -</p> <ul style="list-style-type: none"> <li>-3 credits of food products and processing systems</li> <li>-3 credits of plant systems</li> <li>-3 credits of animal systems</li> <li>-3 credits of power, structural, and technical systems</li> <li>-3 credits of natural resource systems</li> <li>-3 credits of environmental service systems</li> <li>-3 credits of agribusiness systems</li> <li>-3 credits of biotechnology</li> <li>-2 credits of career and technical education preparation.</li> </ul>	<p>Requires, completion of career and technical education traditional certification or alternative route to certification</p> <p>AND</p> <p>1. 15 credits total, including at least 3 credits in each of the following:</p> <ul style="list-style-type: none"> <li>-- plant systems</li> <li>- animal systems</li> <li>- power, structural, and technical systems</li> <li>- natural resource systems or environmental service systems</li> <li>- agribusiness systems</li> </ul> <p>-OR</p> <p>2. State Certification Exam/ Industry Certification: Agriculture Praxis (5701)</p>

Cluster: Agriculture, Food & Natural Resources (cont.)			
Administrative Rule	Endorsement Name	Old Rules	New Rules
<p>OLD: None</p> <p>NEW: 24:15:10:02(1)</p>	Food Products and Processing Systems Pathway Endorsement	New endorsement. No corresponding old rules.	<p>Requires, completion of career and technical education traditional route to certification, or CTE specialist route to certification</p> <p>AND</p> <p>1. 9 credits total, including at least 1 credit from each of the following:</p> <ul style="list-style-type: none"> <li>- ag processing</li> <li>- food science</li> <li>- ag biotechnology</li> <li>- agriscience OR</li> </ul> <p>2. Passage of one of the following state certification exams: HACCP Certification iCEV Food Safety &amp; Science Certification OR</p> <p>3. 4,000 hours of validated work experience in a related field within the previous five years, including the following: Food Scientist Meat Processor Food Inspector</p>

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<p>OLD: None</p> <p>NEW: 24:15:10:02(2)</p>	Plant Systems Pathway Endorsement	New endorsement. No corresponding old rules.	<p>Requires, completion of career and technical education traditional route to certification, or CTE specialist route to certification.</p> <p>AND</p> <p>1. 9 credits total, including at least 1 credit from each of the following:</p> <ul style="list-style-type: none"> <li>- plant science</li> <li>- horticulture</li> <li>- landscape design</li> <li>- greenhouse management</li> <li>- floriculture</li> <li>- ag biotechnology</li> <li>- agriscience OR</li> </ul> <p>2. Passage of one of the following state certification exams: Certified Crop Advisor Certified Horticulturist OR</p> <p>3. 4,000 hours of validated work experience in a related field within the previous five years, including the following: Agronomist Plant Breeder</p>

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<p>OLD: None</p> <p>NEW: 24:15:10:02(3)</p>	Animal Systems Pathway Endorsement	New endorsement. No corresponding old rules.	<p>Requires, completion of career and technical education traditional route to certification, or CTE specialist route to certification.</p> <p>AND</p> <p>1. 9 credits, including at least 1 credit from each of the following: -animal science -companion animals -ag biotechnology -agriscience OR</p> <p>2. Passage of state certification exam: iCEV Fundamentals of Animal Science OR</p> <p>3. 4,000 hours of validated work experience in a related field within the previous five years, including the following: Veterinarian/Vet Technician Animal Nutritionist Livestock Geneticist USDA Inspector</p>

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<p>OLD: None</p> <p>NEW: 24:15:10:02(4)</p>	Power Structural and Technical Systems Pathway Endorsement	New endorsement. No corresponding old rules.	<p>Requires, completion of career and technical education traditional route to certification, or CTE specialist route to certification.</p> <p>AND</p> <p>1. 9 credits, including at least 1 credit from each of the following: -ag mechanics -ag power technology -ag structures -ag metal fabrication OR</p> <p>2. Passage of state certification exam: NOCTI Agriculture Mechanics OR</p> <p>3. 4,000 hours of validated work experience in a related field within the previous five years, including the following: Diesel Mechanic Agricultural Engineer Machine Operator</p>

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<p>OLD: None</p> <p>NEW: 24:15:10:02(5)</p>	<p>Natural Resources and Environmental Service Systems Pathway Endorsement</p>	<p>New endorsement. No corresponding old rules.</p>	<p>Requires, completion of career and technical education traditional route to certification, or CTE specialist route to certification.</p> <p>AND</p> <p>1. 9 credits, including at least 1 credit from each of the following:</p> <ul style="list-style-type: none"> <li>-natural resources</li> <li>-wildlife &amp; fisheries</li> <li>-environmental science</li> <li>-ag biotechnology OR</li> </ul> <p>2. 4,000 hours of validated work experience in a related field within the previous five years, including the following:</p> <ul style="list-style-type: none"> <li>Game Warden</li> <li>Aquaculturist</li> <li>Park Manager</li> <li>Forest Ranger</li> <li>Range Conservationist</li> <li>Soil Scientist</li> <li>Environmental Conservationist</li> <li>Water Quality Specialist</li> <li>Toxicologist</li> </ul>

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Administrative Rule	Endorsement Name	Old Rules	New Rules
<p>OLD: None</p> <p>NEW: 24:15:10:02(6)</p>	<p>Agribusiness Systems Pathway Endorsement</p>	<p>New endorsement. No corresponding old rules.</p>	<p>Requires, completion of career and technical education traditional route to certification, or CTE specialist route to certification.</p> <p>AND</p> <p>1. 9 credits, including at least 1 credit from each of the following: -ag business sales &amp; marketing -agribusiness entrepreneurship -ag communications OR</p> <p>2. Passage of one of the following state Certification Exams: National Farm Business Management Exam OR</p> <p>3. 4,000 hours of validated work experience in a related field within the previous five years, including the following: Ag Loan Officer Farm Investment Manager Ag Commodity Broker Ag Economist Rural Appraiser Insurance Adjuster</p>

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<p>OLD: 24:15:06:65</p> <p>NEW: 24:15:10:03</p>	7-12 Curriculum for Agriculture Science Education (CASE) career pathway endorsement	Requires an Agriculture Education certification for grades 7-12 and completion of state-approved national certification training in Curriculum for Agriculture Science Education.	Requires completion of state-approved national certification training in Curriculum for Agriculture Science Education.