# Newton High School Agriculture Career Academy

**Career Cluster:** Agriculture  
**Career Cluster Pathway:** Comprehensive Ag  
**Certification and Honors:** Kansas Department of Agriculture Certificate; National Career Readiness Certificate (WorkKeys); Kansas CTE Scholar; KS State FFA Degree

<table>
<thead>
<tr>
<th>17 CORE CURRICULUM CREDITS</th>
<th>7 ADDITIONAL CREDITS</th>
<th>TOTAL = 24 CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENGLISH</strong></td>
<td><strong>MATH</strong></td>
<td><strong>SCIENCE</strong></td>
</tr>
<tr>
<td>4 credits</td>
<td>3 credits</td>
<td>3 credits</td>
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</tbody>
</table>

- Students are encouraged to use Navience.org to explore careers and postsecondary options.  
- This Program of Study is a SUGGESTED course progression in the academy. Other course offerings are available to earn credits for graduation outside what is listed here.

## HIGH SCHOOL

<table>
<thead>
<tr>
<th>Grade</th>
<th>Courses</th>
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<tbody>
<tr>
<td>9th</td>
<td>English 1, Algebra I, Integrated Science, Elective</td>
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<tr>
<td></td>
<td>Physical Education 1.0</td>
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<td></td>
<td>Technical Agriculture</td>
</tr>
<tr>
<td>10th</td>
<td>English 2, Geometry, Biology, World History</td>
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<tr>
<td></td>
<td>Physical Education .5</td>
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<tr>
<td></td>
<td>Speech .5 (integrated in all academy courses)</td>
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<tr>
<td></td>
<td>Plant and Animal Science</td>
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<tr>
<td></td>
<td>Horticulture I</td>
</tr>
<tr>
<td></td>
<td>Animal Science Pre-Vocational Welding</td>
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<tr>
<td>11th</td>
<td>English 3, Algebra II, Chemistry, US History</td>
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<tr>
<td></td>
<td>Financial Management</td>
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<tr>
<td></td>
<td>Agribusiness</td>
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<tr>
<td></td>
<td>Horticulture II</td>
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<tr>
<td></td>
<td>Animal Health/Vet Tech</td>
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<tr>
<td></td>
<td>Small Engine Repair</td>
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<tr>
<td>12th</td>
<td>English 4, Electives, Electives</td>
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<tr>
<td></td>
<td>American Government .5</td>
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<tr>
<td></td>
<td>+ Economics .5 OR Psychology .5 OR Sociology .5</td>
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<tr>
<td></td>
<td>Ag Leadership and Communications Internship</td>
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<tr>
<td></td>
<td>Ag Equipment Construction</td>
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<td></td>
<td>Ag Power</td>
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</tbody>
</table>

## POSTSECONDARY

### TECHNICAL CENTER PROGRAM(S)

- **Wichita Area Technical College:** Veterinarian Technician
- **North Central Kansas Technical College:** Agriculture Equipment Technology
- **Northwest Kansas Technical College:** Precision Agriculture Technology

### COMMUNITY COLLEGE PROGRAM(S)

- **Barton County Community College:** Ag Business Management
- **Butler Community College:** Animal and Food Science, Agribusiness, Farm & Ranch Management, Agriculture, Food Science and Safety, Livestock Management and Merchandising, Pre-Veterinarian
- **Cloud County Community College:** General Agriculture
- **Hutchinson Community College:** Agriculture, Ag Diesel Mechanics, Farm & Ranch Management, Natural Resources Management, and Pre-professional Veterinary
- **Fort Scott Community College:** Farm & Ranch Management, John Deere Tech, Agriculture
- **Pratt Community College:** Farm & Ranch Management

### UNIVERSITY PROGRAM(S)

- **Fort Hays State University:** Agriculture Business, Agriculture Communications and Journalism, Agriculture Economics, Agriculture Education, Agriculture Technology Management, Animal Science, Food Science and Industry, Horticulture, Milling Science Management
- **Kansas State University:** Agricultural Sciences and Natural Resources major fields of study: agribusiness, agricultural communications, agricultural economics, agricultural education, agricultural leadership, animal science, food science, horticulture, landscape management, natural resource ecology and management, and plant and soil sciences
### CAREERS


### Sample Career Specialties – Based on degree

- Animal Training, Floral Designers
- Agriculture Equipment Operator
- Geothermal Technician
- Loading Machine Operator
- Rotary Drill Operators
- Farm Labor Contractor
- Pest Control Workers
- Livestock/Feedlot Operator
- Livestock Management
- First-Line Supervisors (Farming, Landscaping, Agricultural Crop)
- Nursery/Greenhouse Manager
- Mobile Heavy Equipment Mechanic
- Biofuels Technician
- Forest and Conservation Technician
- Geological and Petroleum Technician
- Precision Agriculture Technician
- Water Treatment Plant Operator
- Agriculture Instructors
- Veterinarian
- Wildlife Biologist
- Farm/Ranch Managers
- Food Scientist
- Soil and Water Conservationist
- Wind Energy Project Engineer/Manager
- Fish and Game Warden
- Park Naturalist
- Environmental Economist
- Zoologist and Wildlife Biologist
- Farm Products Buyer and Purchasing
- Sustainability Specialist
- Animal Geneticist

### Articulation and CTE Dual Enrollment Opportunities

**Students enrolled in the following Newton High School courses will receive college credit from Hutchinson Community College (dual enrollment). Tuition is free to students.**

- **Animal Science:** CTE dual enrollment course = FM109 Livestock Management (3 credits)
- **Agribusiness:** CTE dual enrollment course = FM105 Farm Management (3 credits)
- **Pre-Vocational Welding:** CTE dual enrollment course = WE101 Welding Safety I (1 credit), WE104 Shielded Metal Arc Welding I (1 credit), and WE106 Cutting Processes I (1 credit)
- **Small Engine Repair:** CTE dual enrollment course = AP115 Small Engine Chain Saw Repair (3 credits)

**Students attending Hutchinson Community College could receive free college credit by taking courses at Newton High School using this agreement specific to NHS.**

- **Hutchinson Community College:** Completion of Animal Science + Agribusiness = FM109 Livestock Management (3 credits)
- Completion of Modern Ag Mechanics + Pre-Vocational Welding = WE104 Shielded Metal Arc Welding (3 credits) AND WE106 Cutting Processes I (3 credits)
- Completion of Small Engine Repair = AP115 Small Engine Chain Saw Repair (3 credits)
- Completion of Horticulture I AND Horticulture II = AG110 Home Horticulture (2 credits)

**Students attending one of the following 3 community colleges could receive free college credit by taking courses at Newton High School using a state-wide articulation agreement.**

- **Barton County Community College:** Completion of Tech Ag + one additional ag credit = AGRI 1155 Agriculture Orientation (2 credits)
- **Cloud County Community College:** Completion of any 2 ag credits = AG100 Ag in our Society (1 credit); Completion of Animal Science OR Animal Health/Vet Tech = AG111 Animal Mgmt (3 credits)
- **Pratt Community College:** Completion of Tech Ag + 2 add’l ag credits = AGRI 142 Ag in our Society (1 credit); Completion of Tech Ag + Animal Science + Animal Health/Vet Tech = AGR 235 Animal Mgmt (3 credits); Completion of Tech Ag + Horticulture I + Horticulture II = AGR 117 Horticulture (1 credit)

### CREDIT

**Student Organization Membership**

FAA (membership is required for Ag Academy students). Students will compete in various FFA events, attend FFA functions and participate in fundraising opportunities. A Supervised Agriculture Experience (SAE) is an integral part of FFA. An SAE can fall into one of four categories: Exploratory, Research, Placement (paid or unpaid) or Entrepreneurship. Talk to an academy teacher to learn more about the SAE program and the benefits. Go to [http://www.ksffa.org/](http://www.ksffa.org/) to learn more about FFA in Kansas.

### Professional Learning Experiences

All Ag Career Academy students will be encouraged to attend multiple one-day career shadow in a career of their choice during their sophomore and junior years. Students will enroll in an Internship during their senior year which could be done during the school day.