Model Programs of Study Guide: Agriculture, Food, and Natural Resources

**ORIENTATION / INTRODUCTION**
Grades 9–10

- Basic Agricultural Science
- Horticulture

**SKILL DEVELOPMENT**
Grades 10–12

- Agriculture Business Management
- Introduction to Soil Science
- Horticulture Production & Management

**CAPSTONE / ADVANCED**
Grades 12

- Introduction to Animal Science
- Microcomputer Skills in Agriculture
- Introduction to Crop/Plant Science

**POSTSECONDARY COURSES**
Recommended 1st Year

- Introductory Economics of Food, Fibers, and Natural Resources
- Introductory Economics of Food, Fibers, and Natural Resources

**POSTSECONDARY OPTIONS**

1. **AGRICULTURE**
   - Agriculture AA/AS
   - Conservation AS

2. **AGRICULTURAL BUSINESS**
   - Agricultural Business AA
   - Agricultural Production AA
   - Precision Agricultural AA

3. **HORTICULTURE**
   - Horticulture AA
   - Plant and Soil Science AA

4. **ANIMAL SCIENCE**
   - Veterinary Tech Certificate
   - Animal Science AA

**SELECTED OCCUPATIONS, WAGES, & JOB GROWTH**

<table>
<thead>
<tr>
<th>Program</th>
<th>Typical Job</th>
<th>Near or Above Living Wage Threshold for 1 Adult + 1 Child</th>
<th>Median Hourly Wage</th>
<th>Growth in IL: Annual Job Openings</th>
<th>Growth in IL: % Change Over 10 Years</th>
<th>Stackable?</th>
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</thead>
<tbody>
<tr>
<td>1. Guided Transfer</td>
<td>Soil and Water Conservationists, Conservation Scientists</td>
<td>Y</td>
<td>$29.43</td>
<td>70</td>
<td>5%</td>
<td>Typically Stacks to Required Bachelor's Degree</td>
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<tr>
<td>2. Agribusiness</td>
<td>Agricultural Inspectors</td>
<td>Y</td>
<td>$25.32</td>
<td>50</td>
<td>8%</td>
<td>Not Typically Stackable</td>
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<tr>
<td>3. Horticulure &amp; Plant Science</td>
<td>Farm and Ranch Managers</td>
<td>Y</td>
<td>$28.91</td>
<td>6,390</td>
<td>1%</td>
<td></td>
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<tr>
<td>4. Animal Science</td>
<td>First-Line Supervisors of Animal Husbandry &amp; Animal Care Workers</td>
<td>Y</td>
<td>$23.43</td>
<td>70</td>
<td>3%</td>
<td></td>
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</tbody>
</table>

**AP or Dual Credit**
- AP or Dual Credit Course
- Dual Credit Course With/Without Code
- Course or Program Prepares for Industry Credential
- Postsecondary Course Affiliated With/Without Code
- College and Career Pathway Endorsement Earned

**STEM**
- Science Sequence
- Social Science Sequence
- Algebra/Geometry
- English Sequence

**Additional Coursework**
- Relevant bachelor's degree may be required to do so for employability in the field.

**Academic Pathways**
- Bachelor of Sciences

Upon earning an associate degree, students may pursue a relevant bachelor's degree but are not required to do so for employability in the field.

**Program Typical Job**
1. Living wage calculations are based on Glaimer, Amy K. Living Wage Calculator. 2020. Massachusetts Institute of Technology. livingwage.mit.edu. As of January 2021 for the state of Illinois, the “Living Wage” for 1 Adult + 1 Child equaled $20.37/hour and “near” defined as 85% of that statewide living wage, was $22.07/hour. In March of 2021, the Living Wage calculator updated its calculations for Illinois, but information presented in this guide reflects the wage levels as of January 2021, when the project team conducted its analysis.