Precision Agriculture introduces students to the concept of precision farming, which uses the latest technology and equipment. It provides background information and prepares students to implement precision farming practices in their farming operation or agribusiness operation. The potential impact of precision farming on crop production and farming operations is influenced by the rapidly emerging technologies that make precision farming possible.

Why SCC?

Students in this program will get hands-on experience with the various technologies in this field, as well as a basic understanding of hydraulic and electronic systems used in these practices. A graduate will be able to install, set up, operate, analyze, and troubleshoot the systems needed.

Program Overview

Precision agriculture is the practice of farming on a site-specific basis to lower input costs and maximize yield potential. The approach used to gain these higher yields comes from the use of information provided by GPS guidance, drones, variable-rate application, GPS-based soil testing, satellite imagery, crop health analysis, yield monitoring, and prescription-based applications.

This certificate program requires one General Education class.

Oral Communication 3.0 hours
SPCH2810 Business and Professional Communication

Precision Agriculture Certificate Core Classes

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR1171</td>
<td>Ag Technology</td>
<td>2.0</td>
</tr>
<tr>
<td>AGR1172</td>
<td>Ag Precision Hardware</td>
<td>2.0</td>
</tr>
<tr>
<td>AGR1378</td>
<td>Electrical and Hydraulic Fundamentals</td>
<td>3.0</td>
</tr>
<tr>
<td>AGR12279</td>
<td>Precision Technology</td>
<td>2.0</td>
</tr>
<tr>
<td>AGR12295</td>
<td>Advanced Precision Technology</td>
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<tr>
<td>AGR12296</td>
<td>Advanced Ag Precision Hardware</td>
<td>2.0</td>
</tr>
<tr>
<td>GIST1110</td>
<td>Introduction to Geospatial Technology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

This is a 17.0-hour program requiring 20.0 credit hours.

Our transfer pathway with Kansas State University allows you to earn a two-year A.A.S. degree while receiving excellent hands-on education. You can then progress to a 4-year degree in Agricultural Education at Kansas State. Go to https://go.k-state.edu/pathways to learn more.

Top Career Options

- Precision Ag Specialist
- Precision Farming Specialist
- Field Service Technician
- Sales Manager
- Drone Technician

Graduate Earnings

Recent graduates report an average starting salary of $15.90* per hour.

Credit Hours Required for Graduation:
Certificate: 20.0

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*New program. No graduate salary data available. Estimated salaries are based on the 25th percentile earnings for SCC’s 15-county area for all occupations relevant to the program of study. (EMSI data; www.economicmodeling.com)