



# Academic Program Review Report

Agriculture, A.S.

2018-2019

# Executive Summary

<p><b>Institution Name:</b> Oklahoma Panhandle State University  <b>Program Name and State Regents Code:</b> Agriculture AS 043  <b>Date of Peer Review:</b> November 8, 2018 <b>Recommended Date of Next Review:</b> Fall 2023</p>	
<p><b>Centrality to Institutional Mission:</b>          The program of Agriculture follows the Oklahoma Panhandle State University mission of “Rooted in “Progress through Knowledge,” OPSU is committed to promoting excellence in the preparation of students for success in a global community.” This is done through its goals, which align to the primary points of “progress through knowledge... in a global community” with a focus on oral and written communication, analytical and quantitative reasoning, and social responsibility and cultural awareness.</p>	
<p><b>Program Objectives and Goals:</b>          Goal 1: Oral and Written Communication: Communicate effectively using written, oral, and symbolic languages          Student Learning Objectives:          1) Students will be able to demonstrate an ability to communicate effectively in a professional written form.          2) Students will be able to demonstrate an ability to communicate effectively verbally.          Goal 2: Analytical and Quantitative Reasoning: Read and think critically by analyzing, assimilating, and applying information          Student Learning Objectives:          1) Students will be able to demonstrate an understanding of animal and agronomic agriculture.          2) Students will be able to demonstrate an understanding of basic economic and business principles.          3) Students will be able to demonstrate and apply critical thinking skills to problems in agriculture.          Goal 3: Social Responsibility and Cultural Awareness: Be an aware and active participant in the global, dynamic community          Student Learning Objectives:          1) Students will be able to demonstrate an understanding of animal, and agronomic principles associated with each.          2) Students will be able to demonstrate an understanding of business principles and practices as they relate to agriculture.</p>	
<p><b>Quality Indicators:</b></p>	<p>Student benchmarks were met in all student-learning objectives at the time of the Program Review. These benchmarks and objectives have been revised to encourage program growth.          Student evaluations are used by faculty regularly to make changes to assure students are getting the education necessary to successfully transition into a baccalaureate program in their chosen agricultural discipline.          Learning environments for the student are becoming more effective. Faculty in the department participated in a campus wide evaluation of the learning management system; the digital learning space of D2L was reevaluated Summer 2018 and found to still be a great fit for our students and their learning.</p>
<p><b>Productivity for Most Recent 5 Years:</b></p>	<p><b>Number of Degrees:</b> 48, average: 9.6  <b>Number of Majors:</b> 271, average: 54.2</p>

<b>Other Quantitative Measures:</b>	<p>Number of Courses for Major: 16  Student Credit Hours in Major: 22  2017/2018 Direct Instructional Costs: \$190,007  Supporting Credit Hour Production: 3</p> <table border="1" data-bbox="456 327 1401 611"> <thead> <tr> <th>Faculty Member</th> <th>Credential</th> <th>Institution</th> </tr> </thead> <tbody> <tr> <td>Daren Stephens</td> <td>MS</td> <td>Kansas State University</td> </tr> <tr> <td>Curtis Bensch</td> <td>PhD</td> <td>Kansas State University</td> </tr> <tr> <td>Sandol Johnson</td> <td>PhD</td> <td>Oklahoma State University</td> </tr> <tr> <td>Britt Hicks</td> <td>PhD</td> <td>Texas A&amp;M University</td> </tr> <tr> <td>Nels Peterson</td> <td>PhD</td> <td>North Dakota State University</td> </tr> </tbody> </table> <p>Number of FTE faculty in specialized courses: 5</p>	Faculty Member	Credential	Institution	Daren Stephens	MS	Kansas State University	Curtis Bensch	PhD	Kansas State University	Sandol Johnson	PhD	Oklahoma State University	Britt Hicks	PhD	Texas A&M University	Nels Peterson	PhD	North Dakota State University
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<b>Duplication and Demand</b>	<p>The Associates in Agriculture program is in place to assist students in their path toward baccalaureate agricultural study.  There is no comparable university offering a similar program within a reasonable distance.</p>																		
<b>Effective Use of Resources</b>	<p>2017/2018 Cost to operate program per student credit hour: \$277.89  Faculty/student ratio for 2017/2018: 1/6.9</p>																		
<b>Strengths and Weaknesses</b>	<p>Strengths include curriculum of the Associate in Science of Agriculture degree is closely aligned to the four majors offered at Oklahoma Panhandle State University in Agriculture, and provides a degree for students who seek an associate's level credential.  Weaknesses include assessment collection historically not clearly communicated and data being inconsistently collected and analyzed.</p>																		
<b>Recommendations</b>	<p>Maintain at current level.  Program will improve record keeping and data analysis annually.</p>																		

# Analysis and Assessment

## PROGRAM REVIEW



**Program:** A.S Agriculture

**Mission:** The mission of the OPSU agriculture programs is to provide agriculturally based higher education to students in a setting that promotes excellence and prepares them to be successful in their chosen agricultural career, locally, nationally and globally.

### Last Cycle's Goals and Learning Objectives:

<b>Goal 1- Oral and Written Communication: Communicate effectively using written, oral, and symbolic languages.</b>			
<b>Student Learning Outcome(s)</b>	<b>Courses where Assessed</b>	<b>Results</b>	<b>Changes Made</b>
Students will be able to demonstrate an ability to communicate effectively in a professional written form.	AG 1011, AGRN 2124, ANSI 1124.	Available data indicates that the benchmarks are being met	Implementation of instructor driven assessment will be implemented in academic year 2018-19
Students will be able to demonstrate an ability to communicate effectively verbally.	AG 1011, AGRN 1213	Available data indicates the benchmarks are being met	Implementation of instructor driven assessment will be implemented in academic year 2018-19

<b>Goal 2- Analytical and Quantitative Reasoning: Read and think critically by analyzing, assimilating, and applying information.</b>			
<b>Student Learning Outcome(s)</b>	<b>Courses where Assessed</b>	<b>Results</b>	<b>Changes Made</b>
Students will be able to demonstrate an understanding of animal and agronomic agriculture.	ANSI 1124, AGRN 1213, ANSI 2123, AGRN 2124.	Available data indicates the benchmarks are being met	Implementation of instructor driven assessment will be implemented in academic year 2018-19
Students will be able to demonstrate an understanding of basic economic and business principles.	AG 1011, AGRN 1213	Available data indicates the benchmarks are being met	Implementation of instructor driven assessment will be implemented in academic year 2018-19

Students will be able to demonstrate and apply critical thinking skills to problems in agriculture.	Ag 1011, AG 2343	Available data indicates the benchmarks are being met	Implementation of instructor driven assessment will be implemented in academic year 2018-19
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**Goal 3- Social Responsibility and Cultural Awareness:** Be an aware and active participant in the global, dynamic community.

<b>Student Learning Outcome(s)</b>	<b>Courses where Assessed</b>	<b>Results</b>	<b>Changes Made</b>
Students will be able to demonstrate an understanding of animal, and agronomic principles associated with each.	AGRN 1213, ANSI 1124	Available data indicates the benchmarks are being met	Implementation of instructor driven assessment will be implemented in academic year 2018-19
Students will be able to demonstrate an understanding of business principles and practices as they relate to agriculture.	AG 1011, AG 2343	Available data indicates the benchmarks are being met	Implementation of instructor driven assessment will be implemented in academic year 2018-19

### Data Trends

	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>
<b>Applicants (if applicable)</b>	N/A	N/A	N/A	N/A
<b>Enrolled</b>	61	42	53	48
<b>Graduated</b>	9	12	7	10

### Critical Thinking Questions:

1. What are the strengths and opportunities of the program?
  - The current curriculum of the Associate in Science degree is closely aligned with the four majors offered at OPSU in Agriculture.
  - Students receiving their A.S. degree can easily matriculate into Agriculture Business, Agronomy, Agricultural Education or Animal Science.
2. What are the weaknesses of the program?
  - The current assessment collection has not been clearly communicated and data has been inconsistently collected and analyzed.
3. How is the program marketed? Is the marketing effective?
  - The Agricultural Education program hosts the annual Interscholastic, which draws in approximately 600 FFA members from a multi-state area. This event is used not only to allow FFA members to compete in their respective events; but provides for a level of comfort to those members attending, getting them to know the OPSU campus and programs offered in Agriculture.
  - Faculty regularly recruit at local fairs, shows and activities. This provides visibility in the local area for potential students to meet and get to know faculty before coming to OPSU.
  - Faculty recruit at high schools and junior colleges, building relationships with potential students, letting them know that OPSU is a place where they can attend and be successful.
  - Faculty and staff assist with activities at high schools and area junior colleges throughout the academic year.
  - Recruiting has helped increase enrollment in the Agricultural programs at OPSU.
4. How does this program meet social, cultural, technological, scientific, and economic needs in the world?
  - Faculty regularly include examples of global agriculture.
  - Faculty readily use technology to assist in student learning.
  - Members of the faculty regularly read and incorporate current research into their classes, allowing students to be exposed to current research and scientific research.
  - Faculty utilize teaching methods and examples of best management practices to provide students with examples of not only local but national and global issues.
5. Does the program have low enrollment courses? Should they continue to be offered? Why or why not?
  - In the courses required for the A.S. in Agriculture, there are no low enrollment courses.

6. In courses with DFW rates of higher than 20%, what challenges are there for the students? What changes can be made to improve the DFW rate?
  - Data was not available for DFW rates.
7. Is the benchmark for non-major students taking courses in this program assessed appropriately?
  - No data is available to answer this question.
8. How is student feedback informing program or course changes?
  - Faculty regularly read and take note of constructive critique of courses from the student evaluations. These critiques are used to make changes to assure students are getting the education necessary to matriculate into a B.S. degree in their chosen agricultural discipline.
9. What are the qualifications of the program faculty for teaching in this program?
  - AG 1011, AG 2343, Daren Stephens, M.S Agricultural Economics
  - AGRN 1323, Curtis Bensch, PhD, Agronomy
  - ANSI 1124, Sandol Johnson PhD, Animal Science
  - ANSI 2124, Britt Hicks, PhD, Animal Science
  - AGRN 2124, Nels Peterson, PhD, Education, 15 years requisite experience, Cooperative Extension
10. How are teaching assignments determined?
  - Faculty are assigned to teach courses in the A.S. in Agriculture by their major degree and/or experience in the discipline being taught.
11. How are adjunct faculty supported and mentored?
  - Currently, no adjunct faculty are being contracted to teach courses in the A.S. in Agriculture degree.
12. What are the significant accomplishments this program has? How can more be encouraged?
13. What resources are needed by this program to assist in improving student learning? i.e. library, information technology resources, services, etc.
  - Continued support of the Agricultural programs.
  - In this day of technological advances, technology must continue to be kept up as current as budget restraints allow.

**Proposed Student Learning Outcomes for the next Cycle:**

	<b>Goal 1- Oral and Written Communication:</b> Communicate effectively using written, oral, and symbolic languages.	<b>Goal 2- Analytical and Quantitative Reasoning:</b> Read and think critically by analyzing, assimilating, and applying information.	<b>Goal 3- Social Responsibility and Cultural Awareness:</b> Be an aware and active participant in the global, dynamic community.
<b>Student Learning Objective(s)</b>	1. Students will be able to demonstrate an ability to communicate effectively in a professional written form. 2. Students will be able to present breeds of animals and current hot topics information to the class and also to other faculty members. Students will present individually or on a team a selected topic in Power Point presentation followed by questions from the audience	Students will be able to complete a Pearson Square for evaluating percentage and poundage of nutrients need to achieve a final % of the designated nutrient. Students worked in groups to complete the analysis of the Pearson Square.	Students in groups worked to complete a presentation for the class on a topic representing a current issue world-wide in Animal Science. This can include droughts, loss of grasslands, diseases, natural disasters, etc. and how this has affected the area and world-wide markets.
<b>Courses where Assessed</b>	1. AG 1011, AGRN 2124, ANSI 1124. 2. ANSI 1124	ANSI 1124 , AG 1011, AGRN 1213	ANSI 1124, AG 2343
<b>Benchmark</b>	1. 70% on rubrics 2. 70% on rubrics	70% on rubrics, 60% on pre-post	70% on rubrics

## Program Review Recommendations

The recommendation is to continue the program at its current level. Benchmarks have been met with reasonable success by the program, and new redefined student learning objectives will provide additional data for analysis at the time of the next program review.