



“We Strive to Guarantee Quality and Excellence”

Palau Community College is an accessible public educational institution helping to meet the technical, academic, cultural, social, and economic needs of students and communities by promoting learning opportunities and developing personal excellence.

**T1 - Instructional Programs
(Academic Degree & Certificate Programs)**

Three Year Program Review

Degree / Certificate Program

AGRICULTURAL SCIENCE

Period of Three-Year Review

Fall 2018 to Summer 2021

Program Review Completed By:

Name	Title	Signature	Date
Fredrick Ikertang	Associate Professor, Chair	<i>Fredrick Ikertang</i>	May 04, 2022

Program Review Certified By:

Name	Title	Signature	Date
Deikola Olikong	Dean, Academic Affairs	<i>Deikola Olikong</i>	5/4/2022

Program Review Received By: (Institutional Research & Evaluation Office)

Name	Title	Signature	Date
Ligaya Sara	Institutional Researcher	<i>Ligaya Sara</i>	May 04, 2022

Purpose:

Program review at Palau Community College is a process that provides an extensive evaluation of academic and non-academic programs on a three year basis. The results of yearly assessments (using the FAMED process) are compiled into the one three year review cycle.

The purpose of program review is to evaluate program sufficiency to allow definite strategies to be developed for major revisions, to provide information for consideration when decisions are made, and to develop recommendations to improve institutional effectiveness.



Instructions for completing Program Review:

1. Type your text into the boxes. The text boxes will expand to accommodate the amount of text spaces you need.
2. Individual instructions are included before each section. Examples are in **green**, remove when you start writing.
3. Submit completed and signed Program Review in both hard copy and electronic copy format to the Institutional Research & Evaluation Office.
4. Required supporting documents must be included during submission.

Appendix A: CLOs – PLOs – ILOs Mapping (e-copy only)

Appendix B: Most Updated & Approved Outlines within this cycle (e-copy only)

Appendix C: Most Updated Program Modification with PLOs within this cycle (e-copy only)

Appendix D: FAMED grid of all course assessment data within review cycle
(e-copy in pdf only)

5. Be sure to keep both hard and electronic copies for your file.

Note: Other college plans may include the 15-Year Institutional Master Plan, the 5-Year Technology Plan, Institutional Learning Outcomes, Institutional-Set Standards for Student Achievement, or other plans, such as an approved department plan or committee plan.

I. Academic Degree Program Purpose (Program Description) and Relationship to the College Mission

1. State the purpose of this academic degree program below.

This program is designed to equip students with employability skills with technical expertise and scientific knowledge in crop and animal productions, to become future agriculturists, and successful entrepreneurs; or for the pursuit of a higher education in the field of Agricultural Science. It also develops concern and awareness of the students to protection and preservation of the eco-system.

2. How is the academic degree program supporting the overall mission of the College?

As an open- door for technical skills development and training institution for occupational programs, Agricultural Science courses are designed to meet all the required competencies for future employment of students, and become prospective entrepreneurs of their respective communities. The program provides the students with scientific knowledge in farm expertise, and specialized skills in line with the goals of sustainable agriculture as one of the priority programs of the College.

Agricultural Science supports the college Mission through it goals:

- To develop future Agricultural Technologists with competent skills and committed citizens to improve their respective communities.
- To promote the concepts of entrepreneurship and enable the graduates to fully participate in the economic stability of the country.
- To extend technical expertise and assistance that is supportive to the national agricultural policies to strengthen the agricultural sectors of their community.
- To develop concerns and awareness among students in preserving diversities

3. Provide a brief history of this academic degree program below. Include the updates of major changes and accomplishments since the last review.

The Agricultural Science courses started upon the expansion of the vocational education of the former Micronesian Occupational Center. It was due to the growing political awareness among the states and republics of Micronesia and because of the commitment of the United States of America to the economic and educational development. Funding permitted the addition of facilities and staff in 1976. In 1974, the Agriculture Program was included in the school's offerings and started with six (6) courses. The program started with a handful of students to demonstrate the importance of agriculture to the growing public of Micronesia, which predominantly depend on its agriculture economy. Despite limited resources, the program has demonstrated to its clientele the basic principles of agriculture by the establishment of crop and animal production projects in where the students were trained to become fully competent individuals in

building the agriculture economy of their respective sectors. In May 1978, the Micronesian Occupational Center, a distinctive and complementary part of the College of Micronesia expanded the courses in Agriculture due to the presidency of Kuniwo Nakamura, who initiated the importance of Agriculture, Tourism and Fishery, as the three (3) national occupational priorities, the college has continuously offered relevant agricultural courses that provide technical expertise leading to food security and sustainability for a strong Republic.

On April 2, 1993, Micronesian Occupational College officially became Palau Community College, which offers more technical courses with Agriculture as one of its complements to deliver its goals and objectives to its clientele. Over the years, Agricultural Science has been a regular program offered by the college providing scientific knowledge and technical expertise to students from the island in particular and the whole region of Micronesia in general.

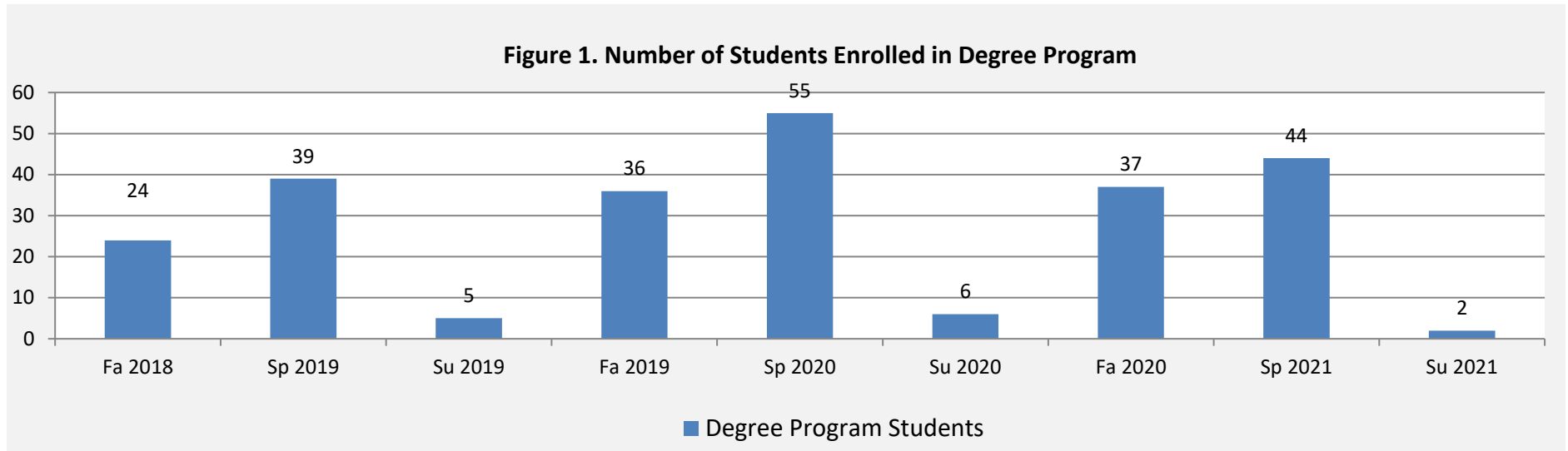
Comparing to the previous program review cycle (5th cycle), there is a clear decrease in enrollment rate in the Agricultural Program. This, in a large part, was due to the covid-19 pandemic. When the covid-19 was introduced to Palau and positive cases started to increase exponentially, the Republic of Palau closed its borders. Because of this, many students from our neighboring islands were not able to enroll to the college. However, our borders are slowly opening now and the Agricultural Program is ready to receive incoming new students to the college come Fall 2022. And as such, the PCC Agricultural program will continue its commitment to equip students with skills and knowledge necessary to find employment after graduation or pursue higher education in Agricultural science. The Agriculture program continues to practice the dry litter method for poultry and swine production which allows the students to practice and understand the importance of water conservation and environmental protection in agriculture. New practices and techniques have been introduced and taught to students in the Agriculture Program such as, deep and shallow water culture hydroponics, recirculating hydroponics, the use of grow lights, raised bed gardening, urban gardening techniques, proper ways to produce compost and compost tea, the production of organic liquid fertilizers and bio pesticides, proper use of incubator for chicken eggs and more.

Recently, two PCC Agricultural Program graduates were hired by PCC Cooperative, Research and Extension (CRE) as research assistants. One of these research assistants has been assisting the faculty in the Agricultural program. Some of his duties include, supervising interns and student workers, conducting laboratory/field work for students, and overall maintenance of the two Agricultural Program farms including chickens and pigs. He has been a great asset to the program. It is important to note that this research assistant does not assist the AG Program full time, as he has other responsibilities to CRE and the PCC Physical Plant.

Within this review cycle, instructors for Agriculture and Related Sciences have authored and co-authored proposals submitted to USDA-NIFA for competitive non-capacity grants. The three grant proposals written within this cycle were approved for funding. These grants have helped tremendously with the college's move toward enhancing distance education and the Agricultural Program's shifting to sustainable farming practices.

II. Program Data

Degree Program Students – Number of Students Enrolled in this Degree Program



Provide summary of Figure 1 including its trends analysis.

Data shows that enrollment during Fall 2018, 2019, and 2020 averaged at 43.33 students with Fall 2020 having the most enrolled students at 37 and Fall 2018 with the least enrolment at 24 students. A decrease of Fall enrollments by 25.39% comparing to the previous cycle. Enrolment for Spring 2019, 2020, and 2021 shows an average of 46 students with the highest enrollment in Spring 2020 at 55 students and the lowest at 39 students. A slight decrease of Spring enrollments by 4.8% comparing to the previous cycle. Summer enrollments averaged at 4.33 students for this cycle. Comparing summer enrollment to the previous cycle shows a decrease of 80.9%. There are much less AG students enrolled for Summer internships. Spring semesters have more enrolled AG students than Fall semesters.

Program Courses Data
(Course Completion Data of Program Students in each Program Course)

You may insert more rows as needed

Table 1a. Course Completion of Program Courses (Fall)

FA 2018					FA 2019					FA 2020				
<u>Course</u>	Passed	Failed	Withdraw	Enrolled	<u>Course</u>	Passed	Failed	Withdraw	Enrolled	<u>Course</u>	Passed	Failed	Withdraw	Enrolled
AG111	7	0	0	7	AG111	14	0	0	14	AG111	8	0	1	9
AG214	5	0	0	5	AG214	7	0	0	7	AG214	9	0	0	9
AG215	6	0	0	6	AG215	7	0	0	7	AG215	9	0	0	9
AG216	6	0	0	6	AG216	8	0	0	8	AG216	9	0	0	9
										AG223	1	0	0	1

Table 1b. Course Completion of Program Courses (Spring)

SP 2019					SP 2020					SP 2021				
<u>Course</u>	Passed	Failed	Withdraw	Enrolled	<u>Course</u>	Passed	Failed	Withdraw	Enrolled	<u>Course</u>	Passed	Failed	Withdraw	Enrolled
AG122	9	0	0	9	AG122	10	1	1	12	AG122	8	0	0	8
AG123	8	0	0	8	AG123	10	1	1	12	AG123	8	0	0	8
AG124	8	0	0	8	AG124	10	1	1	12	AG124	8	0	0	8
AG219	6	0	0	6	AG219	7	0	1	8	AG219	9	0	0	9
AG220	6	0	0	6	AG220	7	0	1	8	AG220	9	0	0	9
AG223	3	0	0	3	AG223	3	0	0	3	AG223	2	0	0	2

Table 1c. Course Completion of Program Courses (Summer)

SU 2019					SU 2020					SU 2021				
<u>Course</u>	Passed	Failed	Withdraw	Enrolled	<u>Course</u>	Passed	Failed	Withdraw	Enrolled	<u>Course</u>	Passed	Failed	Withdraw	Enrolled
AG223	5	0	0	5	AG223	6	0	0	6	AG223	2	0	0	2

Provide summary of Tables 1a, 1b & 1c including its trends analysis.

Total enrollments for Fall 2018 and Fall 2019 were 24 and 36 respectively with both semesters achieving 100% completion rates. In Fall 2020 the total enrollment was 9 with 1 withdrawal resulting in a 97% completion rate. All 40 students enrolled in Spring 2019 and all 44 students enrolled in Spring 2021 passed with a 100% completion rate including internships. For Spring 2020, the total enrollment was 55 students with 5 withdrawals and 3 students who failed resulting in an 85% completion rate. For all Summer internship enrollments, all students passed with a 100% completion rate.

Comparing to the previous cycle, the total enrollment for this cycle for all Fall semesters dropped from 208 students to 97 students, a 53.4% decrease in enrollment. The total enrollment for all Spring semesters also dropped from 264, from the previous cycle, to 139 students, a 47.3% decrease in enrollment.

On a school year basis, school year 2018-2019 had a 100% completion rate. School year 2019-2020 had a 100% completion rate, and school year 2020-2021 had a 99% completion rate.

Total enrollment from the previous cycle, Fall 2015 to Summer 2018, was 493 students compared to this cycle of 249 students. A decrease of 50.5%. However, the total completion rate slightly increased from 95% to 97%.

Program Courses Data
Course Completion Data of ALL Students in each Program Course
(Does not apply for LA and SD Programs)

You may insert more rows as needed

Table 2a. Course Completion of Program Courses (Fall)

FA 2018					FA 2019					FA 2020				
<u>Course</u>	Passed	Failed	Withdraw	Enrolled	<u>Course</u>	Passed	Failed	Withdraw	Enrolled	<u>Course</u>	Passed	Failed	Withdraw	Enrolled
AG111	7	0	0	7	AG111	14	0	0	14	AG111	10	0	1	11
AG214	5	0	0	5	AG214	7	0	0	7	AG214	9	0	0	9
AG215	6	0	0	6	AG215	7	0	0	7	AG215	9	0	0	9
AG216	7	0	0	7	AG216	8	0	0	8	AG216	9	0	0	9
										AG223	1	0	0	1

Table 2b. Course Completion of Program Courses (Spring)

SP 2019					SP 2020					SP 2021				
<u>Course</u>	Passed	Failed	Withdraw	Enrolled	<u>Course</u>	Passed	Failed	Withdraw	Enrolled	<u>Course</u>	Passed	Failed	Withdraw	Enrolled
AG122	9	0	0	9	AG122	10	1	1	12	AG122	8	0	0	8
AG123	8	0	0	8	AG123	10	1	1	12	AG123	8	0	0	8
AG124	8	0	0	8	AG124	10	1	1	12	AG124	8	0	0	8
AG219	7	0	0	7	AG219	7	0	1	8	AG219	9	0	0	9
AG220	6	0	0	6	AG220	7	0	1	8	AG220	9	0	0	9
AG223	3	0	0	3	AG223	3	0	0	3	AG223	2	0	0	2

Table 2c. Course Completion of Program Courses (Summer)

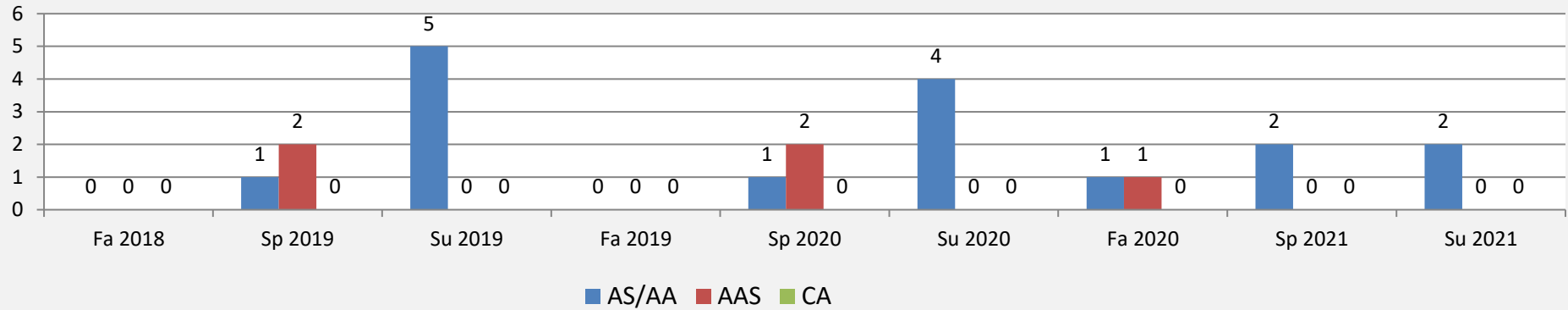
SU 2019					SU 2020					SU 2021				
<u>Course</u>	Passed	Failed	Withdraw	Enrolled	<u>Course</u>	Passed	Failed	Withdraw	Enrolled	<u>Course</u>	Passed	Failed	Withdraw	Enrolled
AG223	5	0	0	5	AG223	6	0	0	6	AG223	2	0	0	2

Provide summary of Tables 2a, 2b & 2c including its trends analysis.

There is no significant difference between the two tables (table 1a-c and table 2a-c). The only difference is that 2 non-AG major students enrolled in AG 111 as either for their science requirement or as an elective. The trend remains the same with the completion rate for all Fall semesters at 99% and for all Spring semesters at 95%. The Summer internships remained exactly the same with the same number of students and overall completion rate of 100%.

On a school year basis, school year 2018-2019 had a 100% completion rate. School year 2019-2020 had a 100% completion rate, and school year 2020-2021 had a 99% completion rate.

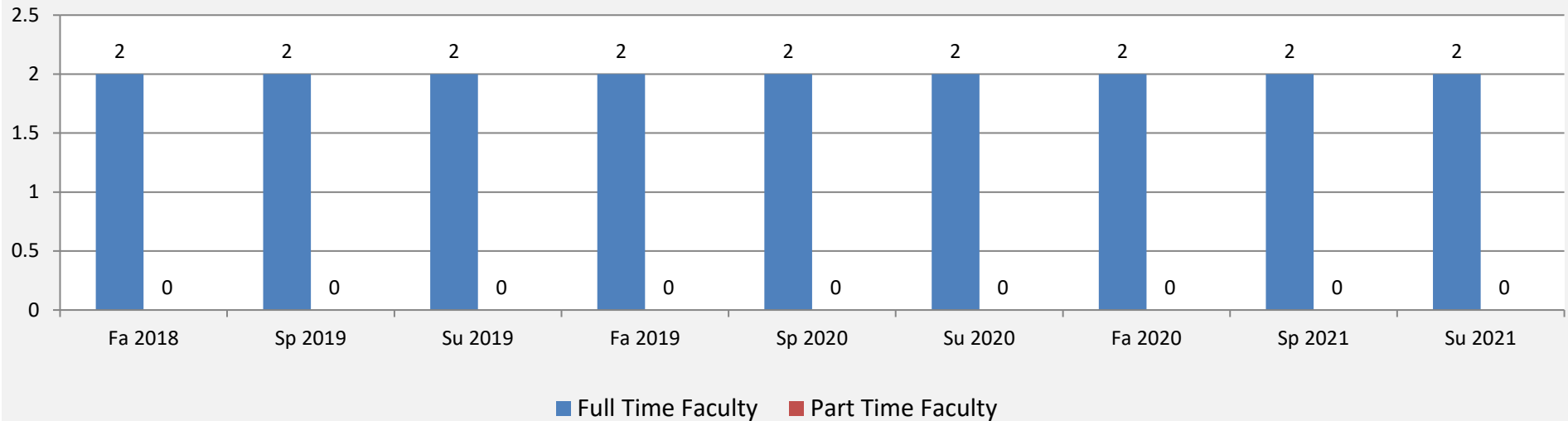
Figure 2. Number of Graduates



Provide summary of Figure 2 including its trends analysis.

The bar chart shows that there were more graduates under the AS/AA degree program with 16 students followed by the AAS degree program at 5 students. Summer 2019 shows the highest number of students graduating under the AS/AA degree program with 5 students. There were 7 semesters, including summers, that had graduates under the AS/AA degree program as opposed to only 3 semesters with graduates under the AAS degree program.

Figure 3. Faculty Head Count



Provide summary of Figure 3 including its trends analysis.

The faculty for the AG program consists of one associate professor/chairperson and one instructional assistant. The instructional assistant is considered a full-time instructor because he teaches three AG major courses per school year and also takes care of the livestock (pigs and chickens) for the Agricultural Program, including weekends and summer.

III. Student Learning and Curriculum

School Year	How many program courses are there? (refer to catalog or recent approval by CPC)	% of courses with Identified CLOs	List all revised program courses outlines or proposed new courses that received CPC approval within this review cycle	% of PLOs aligned with ILOs
Fa'18-Su'19	10	100%	AG 122, AG 123, AG124	100%
Fa'19-Su'20	10	100%	AG 219, AG 220	100%
Fa'20-Su'21	10	100%		100%

Provide Summary of Student Learning and Curriculum in the box below. Summary should include reasons for course revisions and course proposals. If any course and/or the degree or the certificate program went through the validity process, include the information here.

All AG CLO's are tied-up to program learning outcomes (PLO's). The relationships between each CLO and PLO have provided direct links to achieve its effectiveness in meeting the learning objectives. The course assessments have provided an accurate means to evaluate students' progress and to address weaknesses. It provides measures towards improvements to meet the expected learning outcomes. Results of the previous course assessments indicated above average comprehension of students to the different courses learning outcomes.

The assessment of program learning outcomes has provided improvements in achieving its objectives. Identified areas of concern are strengthened after assessments to further its improvements. CLOs are also tied up with ILO's which has provided guidance and gives added challenge to students to attain satisfactory completion of their degrees. This has led to more graduates that are well placed in their respective jobs.

There are ten (10) required program courses. Six of these courses have been updated/modified and approved by CPC within this review cycle. These six courses are AG 122, AG 123, AG 124, AG 219, and AG 220. Three more AG major courses, AG 214, AG 215, and AG 216 were updated and approved by CPC, but will be included in the next review cycle. AG 111 has been updated and awaiting CPC approval.

The internship course for the AG program, AG 223, has been revised, approved by CPC, and was included in the previous review cycle. The revisions allowed employers or site supervisors to do the actual evaluations of the students. This provides an opportunity for students to work directly under the supervision of outside agencies/employer. These supervisor evaluations ensure the college that its graduates are meeting employment and other applicable standards. Recent feedback or comments from site supervisors show internship students from Agriculture have met the standards at levels of above average to excellence.

IV. Course Assessment Data

Year 1: School Year 2018-2019

Semester Assessed	Course Assessed	CLO-PLO-ILO Mapping	Results of Assessments (Do not combine CLO results; report individual CLO results ONLY.)
Fall 2018	AG 111	CLO 1-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4	71% of the students assessed performed at the proficiency level.
		CLO 2-PLO 1, 2, 3, 4-ILOs 1, 2, 3, 4	86% of the students assessed performed at the proficiency level.
		CLO 3-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4	86% of the students assessed performed at the proficiency level.
		CLO 4-PLOs 1, 2, 3, 4-ILO 1, 2, 3, 4	100% of the students assessed performed at the proficiency level.
		CLO 5-PLOs 1,2, 3, 4-ILOs 1, 2, 3, 4	71% of the students assessed performed at the proficiency level.
	AG 214	CLO 1-PLOs 1, 2, 3, 4-ILOs 1, 2, 4, 5	100% of the students assessed performed at the proficiency level.
		CLO 2-PLOs 1, 4-ILOs 1, 4	100% of the students assessed performed at the proficiency level.
		CLO 3-PLOs 1, 2-ILOs 3, 4, 5	100% of the students assessed performed at the proficiency level.
		CLO 4-PLOs 1, 2-ILOs 3, 4, 5	100% of the students assessed performed at the proficiency level.
		CLO 5-PLOs 1, 2-ILOs 3, 4, 5	100% of the students assessed performed at the proficiency level.
	AG 215	CLO 1-PLOs-1, 2-ILO 2, 6	100% of the students assessed performed at the proficiency level.
		CLO 2-PLO 1-ILO 1	100% of the students assessed performed at the proficiency level.
		CLO 3-PLOs 1, 2-ILOs 1, 3, 6	100% of the students assessed performed at the proficiency level.
		CLO 4-PLO 2-ILO 6	100% of the students assessed performed at the proficiency level.
		CLO 5-PLOs 1, 2-ILOs 2, 6	100% of the students assessed performed at the proficiency level.
		CLO 6-PLOs 1, 2, 4-ILOs 2, 3, 4, 5	100% of the students assessed performed at the proficiency level.
		CLO 7-PLOs 1,2 ,3, 4-ILOs 1, 2, 3, 4, 5	100% of the students assessed performed at the proficiency level.
		CLO 8-PLO 1-ILOs 1	100% of the students assessed performed at the proficiency level.
	AG 216	CLO 1-PLOs 1, 2-ILOs 1, 3, 4	100% of the students assessed performed at the proficiency level.
		CLO 2-PLOs 1, 3, 4-ILOs 4, 5, 6	100% of the students assessed performed at the proficiency level.
		CLO 3-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4, 5, 6	100% of the students assessed performed at the proficiency level.
		CLO 4-PLOs 1, 2, 3, 4-ILOs 2, 5, 6	100% of the students assessed performed at the proficiency level.

		CLO 5-PLOs 1, 2, 3, 4-ILOs 2, 3, 6	100% of the students assessed performed at the proficiency level.
Semesters Assessed	Course Assessed	CLO-PLO-ILO Mapping	Results of Assessments
Spring 2019	AG 122	CLO 1-PLOs 1, 2, 3, 4-ILOs 2, 5	100% of the students assessed performed at proficiency level
		CLO 2-PLOs 1, 2, 3,4-ILOs 1,3, 4, 5	100% of the students assessed performed at proficiency level
		CLO 3-PLOs 1, 2-ILOs 1, 2,	100% of the students assessed performed at proficiency level
		CLO 4-PLOs 1, 2, 3-ILOs 1, 3, 4	100% of the students assessed performed at proficiency level
		CLO 5-PLOs 2, 3-ILOs 4, 5	100% of the students assessed performed at proficiency level
	AG 123	CLO 1-PLOs 1, 2, 3, 4-ILOs 1, 2, 4, 5	100% of the student assessed performed at the proficiency level.
		CLO 2-PLOs 1, 2, 3, 4-ILO 1, 2, 4, 6	100% of the student assessed performed at the proficiency level.
		CLO 3-PLOs 1, 2, 3, 4-ILOs 1, 2, 4	88% of the student assessed performed at the proficiency level.
		CLO 4-PLOs 1, 2, 3, 4-ILOs 1, 2, 4	75% of the student assessed performed at the proficiency level.
		CLO 5-PLOs 1, 2, 3, 4-ILOs 1, 2, 4	100% of the student assessed performed at the proficiency level.
	AG 124	CLO 1-PLOs 1-ILO 2	100% of the students assessed performed at proficiency level
		CLO 2-PLO 1-ILO 4	100% of the students assessed performed at proficiency level
		CLO 3-PLOs 1, 2, 4-ILOs 1, 2, 3, 4, 5	75% of the students assessed performed at proficiency level
		CLO 4-PLOs 3, 4-ILOs 1, 2, 3, 4, 5	100% of the students assessed performed at proficiency level
		CLO 5-PLOs 1, 2, 4-ILOs 1, 2, 3, 4, 5	100% of the students assessed performed at proficiency level
	AG 219	CLO 1-PLOs 1, 2-ILOs 1, 3, 5	86% of the student assessed performed at the proficiency level.
		CLO 2-PLOs 1, 4-ILOs 2, 3, 4	100% of the student assessed performed at the proficiency level.
		CLO 3-PLOs 1, 4-ILOs 2, 4	100% of the student assessed performed at the proficiency level.
		CLO 4-PLOs 1, 2, 4 ILOs 3, 4, 5	71% of the student assessed performed at the proficiency level.
		CLO 5-PLOs 3, 4-ILOs 1, 2, 3, 4	100% of the student assessed performed at the proficiency level.
	AG 220	CLO 1-PLOs 1, 4-ILO 2	100% of the student assessed performed at the proficiency level.
		CLO 2-PLOs 1, 4-ILO 1, 2, 3	100% of the student assessed performed at the proficiency level.
		CLO 3-PLOs 1, 4-ILOs 1, 4, 5	100% of the student assessed performed at the proficiency level.
		CLO 4-PLOs 1, 2, 3, 4-ILOs 1, 2, 4, 5	100% of the student assessed performed at the proficiency level.

		CLO 5-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4, 5	100% of the student assessed performed at the proficiency level.
	Ag 223	CLO 1-PLOs 1, 3, 4-ILOs 1, 2, 4, 5, 6	100% of the students assessed performed at the proficiency level.
		CLO 2-PLOs 1, 2, 3, 4 - ILOs 1, 2, 4, 5, 6	100% of the students assessed performed at the proficiency level.
Summer 2019	Ag 223	CLO 1-PLOs 1, 2, 3, 4-ILOs 1, 2, 4, 5, 6	Not assessed
		CLO 2-PLOs 1, 2, 3 4 - ILOs 1, 2, 4, 5, 6	Not assessed

Year 2: School Year 2019-2020

Semester Assessed	Course Assessed	CLO-PLO-ILO Mapping	Results of Assessments
Fall 2019	AG 111	CLO 1-PLOs 1, 2, 3,4-ILOs 1, 2, 3, 4	100% of the students assessed performed at proficiency level.
		CLO 2-PLO 1, 2, 3, 4-ILOs 1, 2, 3, 4	70% of the students assessed performed at the proficiency level.
		CLO 3-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4	90% of the students assessed performed at the proficiency level.
		CLO 4-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4	80% of the students assessed performed at the proficiency level.
		CLO 5-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4	70% of the students assessed performed at the proficiency level.
	AG 214	CLO 1-PLOs 1, 2, 3, 4-ILOs 1, 2, 4, 5	100% of students performed at proficiency level
		CLO 2-PLOs 1, 4-ILOs 1, 4	100%of the students performed at proficiency level
		CLO 3-PLOs 1, 2-ILOs 3, 4, 5	100% of the students performed at proficiency level
		CLO 4-PLO 1, 2-ILOs 3, 4, 5	100% of the students performed at proficiency level
		CLO 5-PLOs 1, 2-ILOs 3, 4, 5	100% of the students performed at proficiency level
	AG 215	CLO 1-PLOs-1, 2-ILO 2, 6	100% of the students performed at proficiency level
		CLO 2-PLO 1-ILO 2	100% of students performed at proficiency level
		CLO 3-PLOs 1, 2-ILOs 1, 3, 6	100% of students performed at proficiency level
		CLO 4-PLO 2-ILO 6	100% of the students performed at proficiency level
		CLO 5-PLOs 1, 2-ILOs 2, 6	100% of the students performed at proficiency level.
		CLO 6-PLOs 1, 2, 4-ILOs 2, 3, 4, 5	100% of students performed at proficiency level.
		CLO 7-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4, 5	100% of students performed at proficiency level.
		CLO 8-PLO 1-ILOs 1	100% of students performed at proficiency level.
	AG 216	CLO 1-PLOs 1, 2-ILOs 1, 3, 4	100% of the students performed at proficiency level
		CLO 2-PLOs 1, 3, 4-ILOs 1, 4, 5, 6	100% of the students performed at proficiency level
		CLO 3-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4, 5, 6	100% of the students performed at proficiency level.

		CLO 4-PLOs 1, 2, 3, 4-ILOs 2, 5, 6	100% of the students performed at proficiency level
		CLO 5-PLOs 1, 2, 3, 4-ILOs 2, 3, 6	100% of the students performed at proficiency level
Semester Assessed	Course Assessed	CLO-PLO-ILO Mapping	Results of Assessments
Spring 2020	AG 122	CLO 1-PLOs 1, 2, 3, 4-ILOs 2, 5	100% of the students performed at proficiency level
		CLO 2-PLOs 1, 2, 3, 4-ILOs 1, 3, 4, 5	100% of the students performed at proficiency level
		CLO 3-PLOs 1, 2-ILOs 1, 3	100% of the students performed at proficiency level
		CLO 4-PLOs 1, 2, 3-ILOs 1, 3, 4	100% of the students performed at proficiency level
		CLO 5-PLO 2, 3-ILOs 4, 5	100% of the students performed at proficiency level
	AG 123	CLO 1-PLOs 1, 2, 3, 4-ILOs 1, 2, 4, 5	90% of the students performed at proficiency level
		CLO 2-PLOs 1, 2, 3, 4-ILO 1, 2, 4, 6	85% of the students performed at proficiency level
		CLO 3-PLOs 1, 2, 3, 4-ILOs 1, 2, 4	100% of the students performed at proficiency level
		CLO 4-PLOs 1, 2, 3, 4-ILOs 1, 2, 4	90% of the students performed at proficiency level
		CLO 5-PLOs 1, 2, 3, 4-ILOs 1, 2, 4	90% of the students performed at proficiency level
	AG 124	CLO 1-PLO 1-ILO 2	100% of the students performed at proficiency level
		CLO 2-PLO 1-ILO 4	100% of the students performed at proficiency level
		CLO 3-PLOs 1, 2, 4-ILOs 1, 2, 4, 5, 6	100% of the students performed at proficiency level
		CLO 4-PLOs 3, 4-ILOs 1, 2, 3, 4, 5	100% of the students performed at proficiency level
		CLO 5-PLOs 1, 2, 4-ILOs 1, 2, 3, 4, 5	100% of the students performed at proficiency level
	AG 219	CLO 1-PLOs 1, 2-ILOs 1, 3, 5	100% of the students performed at proficiency level
		CLO 2-PLOs 1, 4-ILOs 1, 2, 3, 4	100% of the students performed at proficiency level
		CLO 3-PLOs 1, 4-ILOs 1, 2, 4	100% of the students performed at proficiency level
		CLO 4-PLOs 1, 2, 4 ILOs 1, 3, 4, 5	100% of the students performed at proficiency level
		CLO 5-PLOs 3, 4-ILOs 1, 2, 3, 4	100% of the students performed at proficiency level
	AG 220	CLO 1-PLOs 1, 4-ILO 1, 2, 5	100% of the students performed at proficiency level
		CLO 2-PLOs 1, 4-ILO 1, 2, 4, 5	100% of the students performed at proficiency level
		CLO 3-PLOs 1, 4-ILOs 1, 2, 5	100% of the students performed at proficiency level
		CLO 4-PLOs 1, 4-ILOs 1, 2, 4, 5	100% of the students performed at proficiency level
		CLO 5-PLOs 1, 4-ILOs 1, 2, 3	100% of the students performed at proficiency level

		CLO 6-PLOs 1, 4-ILOs 1, 4, 5	100% of the students performed at proficiency level
	Ag 223	CLO 1-PLOs 1, 2, 3, 4-ILOs 1, 2, 4, 5, 6	100% of the students performed at proficiency level
		CLO 2-PLOs 1, 2, 3 4 - ILOs 1, 2, 4, 5, 6	100% of the students performed at proficiency level
Summer 2020	Ag 223	CLO 1-PLOs 1, 2, 3, 4-ILOs 1, 2, 4, 5, 6	100% of the students performed at proficiency level
		CLO 2-PLOs 1, 2, 3 4 - ILOs 1, 2, 4, 5, 6	100% of the students performed at proficiency level

Year 3: School Year 2020 – 2021

Semester Assessed	Course Assessed	CLO-PLO-ILO Mapping	Results of Assessments
Fall 2020	AG 111	CLO 1-PLOs 1, 2, 3-ILOs 1, 2, 3, 4, 5	100% of the students performed at proficiency level
Revised AG Mapping		CLO 2-PLO 1, 2, 3, 4-ILOs 1, 2, 3, 4, 5	100% of the students performed at proficiency level
		CLO 3-PLOs 1, 2-ILOs 1, 2, 5	90% of the students performed at proficiency level
		CLO 4-PLO 1-ILOs 1, 5	100% of the students performed at proficiency level
		CLO 5-PLOs 1, 2, 4-ILOs 1, 4, 5	90% of the students performed at proficiency level
	AG 214	CLO 1-PLOs 1, 2, 3, 4-ILOs 1, 3, 4, 5	100% of the students performed at proficiency level
		CLO 2-PLOs 1, 2, 4-ILOs 1, 4	100% of the students performed at proficiency level
		CLO 3-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4, 5	100% of the students performed at proficiency level
		CLO 4-PLO 1, 2, 3, 4-ILOs 1, 2, 3, 4, 5	100% of the students performed at proficiency level
		CLO 5-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4, 5	100% of the students performed at proficiency level
	AG 215	CLO 1-PLO-1, 4-ILO 1, 2, 5	100% of the students performed at proficiency level
		CLO 2-PLO 1, 4-ILO 1, 2, 5	100% of the students performed at proficiency level
		CLO 3-PLOs 1, 2, 4-ILOs 1, 2, 3, 5	100% of the students performed at proficiency level
		CLO 4-PLO 1, 2, 4-ILO 1, 2, 5	100% of the students performed at proficiency level
		CLO 5-PLOs 1, 4-ILOs 1, 2, 5	100% of the students performed at proficiency level
		CLO 6-PLOs 1, 2, 4-ILOs 1, 2, 3, 4, 5	100% of the students performed at proficiency level
		CLO 7-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4, 5	100% of the students performed at proficiency level
		CLO 8-PLOs 1, 4-ILOs 1, 2, 5	89% of the students performed at proficiency level
	AG 216	CLO 1-PLOs 1, 2-ILOs 1, 3, 4	100% of the students performed at proficiency level
		CLO 2-PLOs 1, 2, 3, 4-ILOs	100% of the students performed at proficiency level

		1, 4, 5, 6	
		CLO 3-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4, 5, 6	100% of the students performed at proficiency level
		CLO 4-PLOs 1, 2, 3, 4-ILOs 1, 2, 5, 6	100% of the students performed at proficiency level
		CLO 5-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 6	100% of the students performed at proficiency level
	Ag 223	CLO 1-PLOs 1-4-ILOs 1-6	Not Assessed
		CLO 2-PLOs 1-4-ILOs 1-6	Not Assessed
Semester Assessed	Course Assessed	CLO-PLO-ILO Mapping	Results of Assessments
Spring 2021	AG 122	CLO 1-PLOs 1, 2, 3, 4-ILOs 1, 2, 5	100% of the students performed at proficiency level
		CLO 2-PLOs 1, 2, 3, 4-ILOs 1, 3, 4, 5	100% of the students performed at proficiency level
		CLO 3-PLOs 1, 2-ILOs 1, 3	100% of the students performed at proficiency level
		CLO 4-PLOs 1, 2, 3-ILOs 1, 3, 4	100% of the students performed at proficiency level
		CLO 5-PLO 2, 3-ILOs 1, 4, 5	100% of the students performed at proficiency level
	AG 123	CLO 1-PLOs 2, 3-ILOs 1, 2, 3	100% of the students performed at proficiency level
		CLO 2-PLOs 1, 2, 4-ILO 1, 2	100% of the students performed at proficiency level
		CLO 3-PLOs 1, 2, 4-ILOs 1, 2, 5	100% of the students performed at proficiency level
		CLO 4-PLOs 1, 2, 4-ILOs 1, 3, 5	100% of the students performed at proficiency level
		CLO 5-PLOs 1, 3-ILOs 1, 2, 3, 4	100% of the students performed at proficiency level
	AG 124	CLO 1-PLOs 1, 2, 4-ILO 1, 2	100% of the students performed at proficiency level
		CLO 2-PLOs 1, 2, 4-ILO 1, 2, 3, 4, 5	100% of the students performed at proficiency level
		CLO 3-PLOs 1, 2-ILOs 1, 3, 4	100% of the students performed at proficiency level
		CLO 4-PLOs 3, 4-ILOs 1, 2, 3, 4, 5	100% of the students performed at proficiency level
		CLO 5-PLOs 1, 2, 4-ILOs 1, 2, 3, 4, 5	100% of the students performed at proficiency level
	AG 219	CLO 1-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4, 5, 6	100% of the students performed at proficiency level
		CLO 2-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4, 5	89% of the students performed at proficiency level
		CLO 3-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4, 5	89% of the students performed at proficiency level
		CLO 4-PLOs 1, 2, 3, 4 ILOs 1, 2, 3, 4, 5	100% of the students performed at proficiency level
		CLO 5-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4, 5	100% of the students performed at proficiency level
	AG 220	CLO 1-PLOs 1, 2, 3, 4-ILO 1, 2, 3	100% of the students performed at proficiency level

		CLO 2-PLOs 1, 2, 3, 4-ILO 1, 2, 3	100% of the students performed at proficiency level
		CLO 3-PLOs 1, 2, 3, 4-ILOs 1, 2, 3	100% of the students performed at proficiency level
		CLO 4-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4, 5	100% of the students performed at proficiency level
		CLO 5-PLOs 1, 2-ILOs 1, 2, 3	100% of the students performed at proficiency level
		CLO 6-PLOs 1, 4-ILOs 1, 4, 5	100% of the students performed at proficiency level
	Ag 223	CLO 1-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4, 5, 6	Not Assessed
		CLO 2-PLOs 1, 2, 3 4 - ILOs 1, 2, 3, 4, 5, 6	Not Assessed
Summer 2021	Ag 223	CLO 1-PLOs 1, 2, 3, 4-ILOs 1, 2, 3, 4, 5, 6	Not Assessed
		CLO 2-PLOs 1, 2, 3 4 - ILOs 1, 2, 3, 4, 5, 6	Not Assessed

Provide Summary of Course Assessment Data with analysis results in the box below. Summary should include how assessment results have led to improvement of course and program learning outcomes, student learning and student achievement.

Averaging the overall assessments of students who performed at the proficiency level in all AG courses per school year shows similar results with school year 2018-2019 showing an average of 96% of students performed at the proficiency level. For school year 2019-2020, an average of 97% of students performed at the proficiency level and for school year 2020-2021, an average of 99% of students assessed performed at the proficiency level.

100% of students who took their internships in this review cycle, whether in Spring or Summer, performed at the proficiency level.

Changes were made due to the assessment data from the previous review cycle for AG 111. Because of these changes, the overall proficiency level increased from 69% to 87%. Adjustments will continue to be made for AG 111 in terms of signature assignments, modes of delivery, and one-on-one contacts with students to continue increasing the overall proficiency level.

V. Program Learning Outcomes (PLOs) Assessment

Year Assessed	PLO Assessed	Proficiency Levels	Results of Assessments (Do not combine PLO results; report individual PLO result.)
2018-2019	PLO 1	AG 111 CLO 1 – 71% AG 111 CLO 2 – 86% AG 111 CLO 3 – 86% AG 111 CLO 4 – 100% AG 111 CLO 5 – 71% AG 122 CLO 1 – 100% AG 122 CLO 2 – 100% AG 122 CLO 3 – 100% AG 122 CLO 4 – 100% AG 123 CLO 1 – 100% AG 123 CLO 2 – 100% AG 123 CLO 3 – 88% AG 123 CLO 4 – 75% AG 123 CLO 5 – 100% AG 124 CLO 1 – 100% AG 124 CLO 2 – 100% AG 124 CLO 3 – 75% AG 124 CLO 5 – 100% AG 214 CLO 1 – 100% AG 214 CLO 2 – 100% AG 214 CLO 3 – 100% AG 214 CLO 4 – 100% AG 214 CLO 5 – 100% AG 215 CLO 1 – 100% AG 215 CLO 2 – 100% AG 215 CLO 3 – 100% AG 215 CLO 5 – 100% AG 215 CLO 6 – 100% AG 215 CLO 7 – 100% AG 215 CLO 8 – 100% AG 216 CLO 1 – 100% AG 216 CLO 2 – 100% AG 216 CLO 3 – 100% AG 216 CLO 4 – 100% AG 216 CLO 5 – 100% AG 219 CLO 1 – 86% AG 219 CLO 2 – 100% AG 219 CLO 3 – 100% AG 219 CLO 4 – 71% AG 220 CLO 1 – 100% AG 220 CLO 2 – 100% AG 220 CLO 3 – 100% AG 220 CLO 4 – 100% AG 220 CLO 5 – 100% AG 223 CLO 1 – 100% AG 223 CLO 2 – 100%	96% of students assessed performed at the proficiency level. The expected outcome of 70% was met. The AG program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.
	PLO 2	AG 111 CLO 1 – 71% AG 111 CLO 2 – 86%	95% of students assessed performed at the proficiency

		AG 111 CLO 3 – 86% AG 111 CLO 4 – 100% AG 111 CLO 5 – 71% AG 122 CLO 1 – 100% AG 122 CLO 2 – 100% AG 122 CLO 3 – 100% AG 122 CLO 4 – 100% AG 122 CLO 5 – 100% AG 123 CLO 1 – 100% AG 123 CLO 2 – 100% AG 123 CLO 3 – 88% AG 123 CLO 4 – 75% AG 123 CLO 5 – 100% AG 124 CLO 3 – 75% AG 124 CLO 5 – 100% AG 214 CLO 1 – 100% AG 214 CLO 3 – 100% AG 214 CLO 4 – 100% AG 214 CLO 5 – 100% AG 215 CLO 1 – 100% AG 215 CLO 3 – 100% AG 215 CLO 4 – 100% AG 215 CLO 5 – 100% AG 215 CLO 6 – 100% AG 215 CLO 7 – 100% AG 216 CLO 1 – 100% AG 216 CLO 3 – 100% AG 216 CLO 4 – 100% AG 216 CLO 5 – 100% AG 219 CLO 1 – 86% AG 219 CLO 4 – 71% AG 220 CLO 4 – 100% AG 220 CLO 5 – 100% AG 223 CLO 1 – 100% AG 223 CLO 2 – 100%	level. The expected outcome of 70% was met. The AG program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.
	PLO 3	AG 111 CLO 1 – 71% AG 111 CLO 2 – 86% AG 111 CLO 3 – 86% AG 111 CLO 4 – 100% AG 111 CLO 5 – 71% AG 122 CLO 1 – 100% AG 122 CLO 2 – 100% AG 122 CLO 4 – 100% AG 122 CLO 5 – 100% AG 123 CLO 1 – 100% AG 123 CLO 2 – 100% AG 123 CLO 3 – 88% AG 123 CLO 4 – 75% AG 123 CLO 5 – 100% AG 124 CLO 4 – 100% AG 214 CLO 1 – 100% AG 215 CLO 7 – 100%	95% of students assessed performed at the proficiency level. The expected outcome of 70% was met. The AG program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.

		AG 216 CLO 2 – 100% AG 216 CLO 3 – 100% AG 216 CLO 4 – 100% AG 216 CLO 5 – 100% AG 219 CLO 5 – 100% AG 223 CLO 1 – 100% AG 223 CLO 2 – 100%	
	PLO 4	AG 111 CLO 1 – 71% AG 111 CLO 2 – 86% AG 111 CLO 3 – 86% AG 111 CLO 4 – 100% AG 111 CLO 5 – 71% AG 122 CLO 1 – 100% AG 122 CLO 2 – 100% AG 123 CLO 1 – 100% AG 123 CLO 2 – 100% AG 123 CLO 3 – 88% AG 123 CLO 4 – 75% AG 123 CLO 5 – 100% AG 124 CLO 3 – 75% AG 124 CLO 4 – 100% AG 124 CLO 5 – 100% AG 214 CLO 1 – 100% AG 214 CLO 2 – 100% AG 215 CLO 6 – 100% AG 215 CLO 7 – 100% AG 216 CLO 2 – 100% AG 216 CLO 3 – 100% AG 216 CLO 4 – 100% AG 216 CLO 5 – 100% AG 219 CLO 2 – 100% AG 219 CLO 3 – 100% AG 219 CLO 4 – 71% AG 219 CLO 5 – 100% AG 220 CLO 1 – 100% AG 220 CLO 2 – 100% AG 220 CLO 3 – 100% AG 220 CLO 4 – 100% AG 220 CLO 5 – 100% AG 223 CLO 1 – 100% AG 223 CLO 2 – 100%	95% of students assessed performed at the proficiency level. The expected outcome of 70% was met. The AG program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.
2019-2020	PLO 1	AG 111 CLO 1 – 100% AG 111 CLO 2 – 92% AG 111 CLO 3 – 92% AG 111 CLO 4 – 100% AG 111 CLO 5 – 100% AG 122 CLO 1 – 100% AG 122 CLO 2 – 100% AG 122 CLO 3 – 100% AG 122 CLO 4 – 100% AG 123 CLO 1 – 100%	99% of students assessed performed at the proficiency level. The expected outcome of 70% was met. The AG program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.

		AG 123 CLO 2 – 89% AG 123 CLO 3 – 100% AG 123 CLO 4 – 89% AG 123 CLO 5 – 100% AG 124 CLO 1 – 100% AG 124 CLO 2 – 100% AG 124 CLO 3 – 100% AG 124 CLO 5 – 100% AG 214 CLO 1 – 100% AG 214 CLO 2 – 100% AG 214 CLO 3 – 100% AG 214 CLO 4 – 100% AG 214 CLO 5 – 100% AG 215 CLO 1 – 100% AG 215 CLO 2 – 100% AG 215 CLO 3 – 100% AG 215 CLO 5 – 100% AG 215 CLO 6 – 100% AG 215 CLO 7 – 100% AG 215 CLO 8 – 100% AG 216 CLO 1 – 100% AG 216 CLO 2 – 100% AG 216 CLO 3 – 100% AG 216 CLO 4 – 100% AG 216 CLO 5 – 100% AG 219 CLO 1 – 86% AG 219 CLO 2 – 100% AG 219 CLO 3 – 100% AG 219 CLO 4 – 100% AG 220 CLO 1 – 100% AG 220 CLO 2 – 100% AG 220 CLO 3 – 100% AG 220 CLO 4 – 100% AG 220 CLO 5 – 100% AG 220 CLO 6 – 100% AG 223 CLO 1 – 100% AG 223 CLO 2 – 100%	
	PLO 2	AG 111 CLO 1 – 100% AG 111 CLO 2 – 92% AG 111 CLO 3 – 92% AG 111 CLO 4 – 100% AG 111 CLO 5 – 100% AG 122 CLO 1 – 100% AG 122 CLO 2 – 100% AG 122 CLO 3 – 100% AG 122 CLO 4 – 100% AG 122 CLO 5 – 100% AG 123 CLO 1 – 100% AG 123 CLO 2 – 89% AG 123 CLO 3 – 100% AG 123 CLO 4 – 89% AG 123 CLO 5 – 100%	99% of students assessed performed at the proficiency level. The expected outcome of 70% was met. The AG program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.

		AG 124 CLO 3 – 100% AG 124 CLO 5 – 100% AG 214 CLO 1 – 100% AG 214 CLO 3 – 100% AG 214 CLO 4 – 100% AG 214 CLO 5 – 100% AG 215 CLO 1 – 100% AG 215 CLO 3 – 100% AG 215 CLO 4 – 100% AG 215 CLO 5 – 100% AG 215 CLO 6 – 100% AG 215 CLO 7 – 100% AG 216 CLO 1 – 100% AG 216 CLO 3 – 100% AG 216 CLO 4 – 100% AG 216 CLO 5 – 100% AG 219 CLO 1 – 86% AG 219 CLO 4 – 100% AG 220 CLO 4 – 100% AG 220 CLO 5 – 100% AG 223 CLO 1 – 100% AG 223 CLO 2 – 100%	
	PLO 3	AG 111 CLO 1 – 100% AG 111 CLO 2 – 92% AG 111 CLO 3 – 92% AG 111 CLO 4 – 100% AG 111 CLO 5 – 100% AG 122 CLO 1 – 100% AG 122 CLO 2 – 100% AG 122 CLO 4 – 100% AG 122 CLO 5 – 100% AG 123 CLO 1 – 100% AG 123 CLO 2 – 89% AG 123 CLO 3 – 100% AG 123 CLO 4 – 89% AG 123 CLO 5 – 100% AG 124 CLO 4 – 100% AG 214 CLO 1 – 100% AG 215 CLO 7 – 100% AG 216 CLO 2 – 100% AG 216 CLO 3 – 100% AG 216 CLO 4 – 100% AG 216 CLO 5 – 100% AG 219 CLO 5 – 100% AG 223 CLO 1 – 100% AG 223 CLO 2 – 100%	94% of students assessed performed at the proficiency level. The expected outcome of 70% was met. The AG program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.
	PLO 4	AG 111 CLO 1 – 100% AG 111 CLO 2 – 92% AG 111 CLO 3 – 92% AG 111 CLO 4 – 100% AG 111 CLO 5 – 100%	99% of students assessed performed at the proficiency level. The expected outcome of 70% was met. The AG program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and

		AG 122 CLO 1 – 100% AG 122 CLO 2 – 100% AG 123 CLO 1 – 100% AG 123 CLO 2 – 89% AG 123 CLO 3 – 100% AG 123 CLO 4 – 89% AG 123 CLO 5 – 100% AG 124 CLO 3 – 100% AG 124 CLO 4 – 100% AG 124 CLO 5 – 100% AG 214 CLO 1 – 100% AG 214 CLO 2 – 100% AG 215 CLO 6 – 100% AG 215 CLO 7 – 100% AG 216 CLO 2 – 100% AG 216 CLO 3 – 100% AG 216 CLO 4 – 100% AG 216 CLO 5 – 100% AG 219 CLO 2 – 100% AG 219 CLO 3 – 100% AG 219 CLO 4 – 100% AG 219 CLO 5 – 100% AG 220 CLO 1 – 100% AG 220 CLO 2 – 100% AG 220 CLO 3 – 100% AG 220 CLO 4 – 100% AG 220 CLO 5 – 100% AG 220 CLO 6 – 100% AG 223 CLO 1 – 100% AG 223 CLO 2 – 100%	implementation will continue to be based on course assessment results and data.
2020-2021 Revised AG Mapping	PLO 1	AG 111 CLO 1 – 100% AG 111 CLO 2 – 100% AG 111 CLO 3 – 90% AG 111 CLO 4 – 100% AG 111 CLO 5 – 90% AG 122 CLO 1 – 100% AG 122 CLO 2 – 100% AG 122 CLO 3 – 100% AG 122 CLO 4 – 100% AG 123 CLO 2 – 100% AG 123 CLO 3 – 100% AG 123 CLO 4 – 100% AG 123 CLO 5 – 100% AG 124 CLO 1 – 100% AG 124 CLO 2 – 100% AG 124 CLO 3 – 100% AG 124 CLO 5 – 100% AG 214 CLO 1 – 100% AG 214 CLO 2 – 100% AG 214 CLO 3 – 100% AG 214 CLO 4 – 100%	99% of students assessed performed at the proficiency level. The expected outcome of 70% was met. The AG program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.

		AG 214 CLO 5 – 100% AG 215 CLO 1 – 100% AG 215 CLO 2 – 100% AG 215 CLO 3 – 100% AG 215 CLO 4 – 100% AG 215 CLO 5 – 100% AG 215 CLO 6 – 100% AG 215 CLO 7 – 100% AG 215 CLO 8 – 100% AG 216 CLO 1 – 100% AG 216 CLO 2 – 100% AG 216 CLO 3 – 100% AG 216 CLO 4 – 100% AG 216 CLO 5 – 100% AG 219 CLO 1 – 100% AG 219 CLO 2 – 89% AG 219 CLO 3 – 89% AG 219 CLO 4 – 100% AG 219 CLO 5 – 100% AG 220 CLO 1 – 100% AG 220 CLO 2 – 100% AG 220 CLO 3 – 100% AG 220 CLO 4 – 100% AG 220 CLO 5 – 100% AG 220 CLO 6 – 100% AG 223 CLO 1 – 100% AG 223 CLO 2 – 100%	
	PLO 2	AG 111 CLO 1 – 100% AG 111 CLO 2 – 100% AG 111 CLO 3 – 90% AG 111 CLO 5 – 90% AG 122 CLO 1 – 100% AG 122 CLO 2 – 100% AG 122 CLO 3 – 100% AG 122 CLO 4 – 100% AG 122 CLO 5 – 100% AG 123 CLO 1 – 100% AG 123 CLO 2 – 100% AG 123 CLO 3 – 100% AG 123 CLO 4 – 100% AG 123 CLO 5 – 100% AG 124 CLO 1 – 100% AG 124 CLO 2 – 100% AG 124 CLO 3 – 100% AG 124 CLO 5 – 100% AG 214 CLO 1 – 100% AG 214 CLO 2 – 100% AG 214 CLO 3 – 100% AG 214 CLO 4 – 100% AG 214 CLO 5 – 100% AG 215 CLO 3 – 100% AG 215 CLO 4 – 100%	99% of students assessed performed at the proficiency level. The expected outcome of 70% was met. The AG program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.

		AG 215 CLO 6 – 100% AG 215 CLO 7 – 100% AG 216 CLO 1 – 100% AG 216 CLO 2 – 100% AG 216 CLO 3 – 100% AG 216 CLO 4 – 100% AG 216 CLO 5 – 100% AG 219 CLO 1 – 100% AG 219 CLO 2 – 89% AG 219 CLO 3 – 89% AG 219 CLO 4 – 100% AG 219 CLO 5 – 100% AG 220 CLO 1 – 100% AG 220 CLO 2 – 100% AG 220 CLO 3 – 100% AG 220 CLO 4 – 100% AG 220 CLO 5 – 100% AG 220 CLO 6 – 100% AG 223 CLO 1 – 100% AG 223 CLO 2 – 100%	
	PLO 3	AG 111 CLO 1 – 100% AG 111 CLO 2 – 100% AG 122 CLO 1 – 100% AG 122 CLO 2 – 100% AG 122 CLO 4 – 100% AG 122 CLO 5 – 100% AG 123 CLO 1 – 100% AG 123 CLO 5 – 100% AG 124 CLO 4 – 100% AG 214 CLO 1 – 100% AG 214 CLO 3 – 100% AG 214 CLO 4 – 100% AG 214 CLO 5 – 100% AG 215 CLO 7 – 100% AG 216 CLO 2 – 100% AG 216 CLO 3 – 100% AG 216 CLO 4 – 100% AG 216 CLO 5 – 100% AG 219 CLO 1 – 100% AG 219 CLO 2 – 89% AG 219 CLO 3 – 89% AG 219 CLO 4 – 100% AG 219 CLO 5 – 100% AG 220 CLO 1 – 100% AG 220 CLO 2 – 100% AG 220 CLO 3 – 100% AG 220 CLO 4 – 100% AG 223 CLO 1 – 100% AG 223 CLO 2 – 100%	99% of students assessed performed at the proficiency level. The expected outcome of 70% was met. The AG program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.
	PLO 4	AG 111 CLO 2 – 100% AG 111 CLO 5 – 90%	99% of students assessed performed at the proficiency level. The expected outcome of 70% was met. The AG

	AG 122 CLO 1 – 100% AG 122 CLO 2 – 100% AG 123 CLO 2 – 100% AG 123 CLO 3 – 100% AG 123 CLO 4 – 100% AG 124 CLO 1 – 100% AG 124 CLO 2 – 100% AG 124 CLO 4 – 100% AG 124 CLO 5 – 100% AG 214 CLO 1 – 100% AG 214 CLO 2 – 100% AG 214 CLO 3 – 100% AG 214 CLO 4 – 100% AG 214 CLO 5 – 100% AG 215 CLO 1 – 100% AG 215 CLO 2 – 100% AG 215 CLO 3 – 100% AG 215 CLO 6 – 100% AG 215 CLO 7 – 100% AG 215 CLO 8 – 100% AG 216 CLO 2 – 100% AG 216 CLO 3 – 100% AG 216 CLO 4 – 100% AG 216 CLO 5 – 100% AG 219 CLO 1 – 100% AG 219 CLO 2 – 89% AG 219 CLO 3 – 89% AG 219 CLO 4 – 100% AG 219 CLO 5 – 100% AG 223 CLO 1 – 100% AG 220 CLO 1 – 100% AG 220 CLO 2 – 100% AG 220 CLO 3 – 100% AG 220 CLO 4 – 100% AG 223 CLO 1 – 100% AG 223 CLO 2 – 100%	program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.
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Provide Summary of Program Learning Outcomes Assessments and analysis results in the box below. Summary should include analysis of this cycle with previous cycles; how assessment results have led to major decisions made to support the improvement of program’s student learning and student achievement.

The results for PLO 1 assessments showed an average of 98% of students performed at proficiency level, a 2% increase from the previous cycle. For PLO 2, 98% of students performed at proficiency level, a 3% increase from the previous cycle. For PLO 3, 96% of students performed at proficiency level, same as the previous cycle. And, for PLO 4, 98% of students performed at proficiency level resulting in a 2% increase from the previous cycle.

The AG program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.

VI. Evaluation of Previous Program Review Action Plan(s)

Indicate the status of the previous program review action plans below. (Include all previous action plans.)
Indicate the cycle and years of the previous program review.

Cycle: 5th Cycle	Years: Fall 2015 to Summer 2018
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Action Plan Activity/Objectives	Status Complete/Ongoing/Incomplete	Updates of Action Plan/s (Report action plan individually.)
To have one computer room for students use in their research/activity work	Completed.	The AG classroom now has two desktops computers with internet connection. These computers have been a great help especially for the students taking AG hybrid courses. Allows for one-on-one help to students taking these hybrid courses.
Hire one regular faculty with at least a BS degree.	Not a priority at this time.	Newly hired CRE research assistant assists the AG program instructors several times a week. Responsibilities include, supervising interns, conduct student laboratory/field work, and maintaining instructional farms.
Request to install automatic waterers for the pigs.	Not a priority at this time.	Incomplete, but not a priority at this time because the AG program is in the process of reducing the number of pigs used for instructional purposes. The pig and chicken houses need renovation before requesting automatic waterers. In addition, there is a part time faculty living in the compound (CRE R and D) for the purpose of taking care of the animals.
Modify the old pig-house walls and partitions	Completed.	Completed, but now needs repairs. Repairs needed include welding of metal frames and hog panels and repairing or replacing roof and gutters.
Attendance to training and workshops.	Completed.	The AG instructors and their students have been and will continue to participate in trainings and workshops with the private and public sectors regarding approved agricultural practices
Revise CLOs – PLOs – ILOs Mapping	Completed	AG faculty completed the revisions for the AG mapping in 2020.
Update/modify AG outlines-AG 111, AG 215, and AG 216	Partially Completed	There are ten (10) AG major courses. AG 223, internship, was modified by Associate Dean M. Temaungil and approved by CPC. AG chairperson updated/modified the remaining nine (9) AG major courses. Five (5) of these outlines have been approved by CPC within this cycle. Three (3) have been approved and will be

		reported in the next cycle. And, one (1), AG 111 has been updated and awaiting CPC approval.
Course program modification-for the AAS, change CO 110 to EN 100	Incomplete. AG chairperson needs to meet with Associate Dean Temaungil to discuss this matter further.	Incoming AG students need to improve their reading and writing skills as opposed to their communication skills. Most AG incoming students prior to Covid 19 were from our neighboring islands and most of them struggle with reading, writing, and comprehension. EN 100 can be the foundation that helps them improve in the higher English level courses. This will enhance their critical thinking abilities which can improve their student learning outcomes.
Repair AG faculty office and classroom ceiling	Completed	Institution repaired the roofing and ceiling of the AG office, classroom, and shop with new paint job. There are no leaks in the office and classroom now. Insulation was also installed which kept the shop cool on hot days.
AG nursery renovation in R & D station	Partially Completed	The roof, doors, and frame/insect screens were repaired. Still need to build a storage for tools and concrete flooring (2/3 rd of the length of nursery) for shredding, drying, and storing organic material as dry litter for our piggery and poultry houses.

Provide Summary of the Evaluation of Previous Program Review Action Plans and analysis results in the box below. Summary should include what measurable outcomes were achieved due to the actions completed; were the completed action plans led to improvement of student learning and student achievement; and provide detailed explanation of action plans that are ongoing and plans that are incomplete.

The pig house modification to hog panels provided better ventilation which led to healthier pigs and the reduction of odor when wood shavings were in short supply. It created a cleaner more sanitary area for student learning. However, it's been several years now and the pig house needs another renovation. The metal frame partitions are rusted and breaking down. They need to be replaced and welded. We practice the dry litter system, but with the gutters broken, the rain water enters the concrete ditch around the pig house making the manure wet and flows down the land increasing the risk of polluting nearby streams. Wet manure makes it difficult to collect and store for compost making and more unsanitary for students to handle. With the gutters fixed, the manure mixed with dry litter stays dry and easy and safer to handle.

VII. Action Plans

Based on this program review results, describe the program action plan for the next three (3) academic years. Include necessary resources.

Action Plan	How will this action plan improve	Needed Resources	Timeline
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Activity/Objectives	student learning outcomes? (CLO, PLO, ILO)	(if any)	
			Fall 2020
Replace metal frames for pig house. Repair or replace damaged hog panels and roof and gutters in the piggery house as well as the outside fence of the chicken house.	Damaged metal frames and hog panels are injuring the pigs. For students to practice proper livestock management, potential causes of injuries should be eliminated. Roof and gutters must be repaired to prevent the dry litter from getting too wet from the rain and increasing the risk of pathogens. Chickens are brought outside twice a week to roam around inside a protective fence which needs repairs. This is part of proper poultry housing management for healthier chickens.	Refer to Institution Heads.	Fall 2022
Incomplete AG nursery renovation in Ngermeskang	For now, the nursery needs a large storage area that can be locked. It needs concrete flooring which was discussed some years ago. Students will shred plant material and dry them in the nursery for our dry litter piggery and poultry system. Shredded materials will also be sorted in the right ratio for proper compost making.	Refer to Institution Heads.	Fall 2022
On-campus shower rooms for male and female AG students in the AG shop if possible.	Every Fall and Spring semesters, AG students, once a week, travel to CRE R \$ D station to feed our animals, clean the chicken house and pig pens, and collect and store the manure for compost making. Students learn hands on in proper livestock management and proper composting. They return to campus with a very strong unpleasant odor stuck to their skins and clothing which led some of the students to skip their afternoon classes because they don't have rides home to shower.	Refer to Institution Heads.	Fall 2022
On-campus nursery	Seeds can be sown in the AG shop, but once they germinate, they need to be transferred to a nursery to get sunlight but still be	Refer to Institution Heads.	Fall 2022

	protected from heavy rains. Students will learn the proper ways to care for plants at different stages of growth and development.		
Renovate and repair/replace aircon in the feed storage room in AG shop	Animal feed is expensive. In order to protect the feed from rats, mold, and spoilage, proper feed storage is essential in farm and animal management.	Refer to Institution Heads.	Fall 2022

Provide Summary of Action Plans in the box below. Summary should include program major strengths; program needs and any recommendations for improvements based on assessment results, data and/or other college major plans. The summary needs to indicate overall program needs that may require financial support from the institution.

Program strengths of the AG program includes: the program produces graduates leading to crop and animal production technologists. Students are trained to become future entrepreneurs with knowledge in farm management that can own and operate their own farms. The program integrates electronic means of presentation of lessons and uses instructional support materials and equipment during practical application of skills during laboratory with a newly hired qualified faculty with Master’s Degree in Soil Science and Organic Agriculture. The AG program has one instructional assistant who teaches three courses per school year. The program also has its own dry-litter piggery and poultry house, nursery and crop production farm where students apply their knowledge to improve their skills. And the AG program has collaborative ties with the Bureau of Agriculture, Taiwan Technical Mission Farm, and private sectors to enhance the capability skills of students through attendance in seminars and workshops that demonstrate approved farming practices.

The complete repair of the swine and poultry houses allows instructors to teach proper animal management practices without any limitations or disruptions. Healthier animals with less stress are easier to manage which allows a better learning environment between the instructor and the students. For our nursery in Ngermeskang, the storage room will house and protect our tools and equipment. And the concrete floor will be used for drying shredded plant materials and storing for dry litter use. Students can further their knowledge by applying proper dry litter management techniques and at the same time practice proper nursery management. A small nursery for our on-campus instructional farm will help students learn and apply better and complete crop management practices from seed to harvest. Renovating and replacing the aircon in the AG shop storage room will allow us to store feed safely and prevent mold, spoilage, and rats from tearing through and eating the feed and spreading droppings everywhere.

VIII. Resource Requests

Itemize resource request below to include resource requests that will support action plans and are data-driven (e.g. program enrollment, course needs, student needs). This section should provide a clear representation of the program’s annual budget request.

Type of Resource	Detailed Description	Estimated Amount Requested	Justification
Personnel			

<p>Facilities</p> <p>-Poultry & swine housing</p>	<p>Replace metal frames for pig house. Repair or replace damaged hog panels and roof and gutters in the piggery house as well as the outside fence of the chicken house.</p>		<p>Safer environment for student learning. The pig house modification to hog panels provided better ventilation which led to healthier pigs and the reduction of odor when wood shavings were in short supply. It created a cleaner more sanitary area for student learning. However, it's been several years now and the pig house needs another renovation. The metal frame partitions are rusted and breaking down. They need to be replaced and welded. We practice the dry litter system, but with the gutters broken, the rain water enters the concrete ditch around the pig house making the manure wet and flows down the land increasing the risk of polluting nearby streams. Wet manure makes it difficult to collect and store for compost making and more unsanitary for students to handle. With the gutters fixed, the manure mixed with dry litter stays dry and easier and safer to handle.</p>
<p>Facility</p> <p>-AG nursery in Ngermeskang</p>	<p>The roof, doors, and frame/insect screens were repaired. Still need to build a storage for tools and concrete flooring (2/3rd of the length of nursery) for shredding, drying, and storing organic material as dry litter for our piggery and poultry houses. For now, the nursery needs a large storage area that can be locked. It needs concrete flooring which was discussed some years ago. Students will shred plant material and dry them in the nursery for our dry litter piggery and poultry system. Shredded materials will also be sorted in the right type and ratio for proper compost making.</p>		<p>For our nursery in Ngermeskang, the storage room will house and protect our tools and equipment. And the concrete floor will be used for drying shredded plant materials and storing for dry litter use. Students can further their knowledge in applying proper dry litter management techniques and at the same time practice proper nursery management.</p> <p>The AG program produces high quality compost. This is greatly affected by the type of organic materials used, how we manage our livestock manure, and how we continue to provide a safe environment for students. We use more compost now than chemical fertilizers to be more sustainable, but the compost needs to be of high quality. Using less chemicals also reduces expenses for the AG program.</p>

Facility	On-campus shower rooms for male and female AG students in the AG shop if possible.		Every Fall and Spring semesters, AG students, once a week, travel to CRE R & D station to feed our animals, clean the chicken house and pig pens, and collect and store the manure for compost making. Students learn hands on in proper livestock management and proper composting. They return to campus with a very strong unpleasant odor stuck to their skins and clothing which led some of the students to skip their afternoon classes because they don't have rides home to shower. Previously, all AG laboratories were conducted on Tuesdays and Thursdays only. AG students had no other classes on these days. Recent changes put lectures and lab together on Mondays, Wednesdays, and Fridays. After morning lab feeding, cleaning, and collecting manure, some students don't show up for afternoon classes or labs. Having a shower room specifically for them will help keep them on campus and not skip classes.
Facility	On-campus nursery		Seeds can be sown in the AG shop, but once they germinate, they need to be transferred to a nursery to get sunlight but still be protected from heavy rains. Students will learn the proper ways to care for plants at different stages of growth and development.
Facility	Renovate and repair/replace aircon in the feed storage room in AG shop		Animal feed is expensive. In order to protect the feed from rats, mold, and spoilage, proper storage is essential in farm and animal management. Feed purchased can all be picked up at once and brought to the storage. We will save on gas by not going back and forth just to pick up what we need for the week and since all the feed have already been paid for, we should bring them all to our storage.
Other			
Total			

Provide Summary of Resource Request in the box below. Summary should connect the resources requested to course, program and institutional learning outcomes assessment results and/or any other college major plans.

The repair and construction of the facilities mentioned above will allow the AG program to continue its commitment in providing quality instructional services in proper swine and poultry management, proper nursery management, and proper soil and crop management practices. All these sustainable agricultural practices align with the CLOs, PLOs, and ILOs.

Providing a shower room for the AG students will allow students, who don't have rides home, to shower and be comfortable to attend their remaining classes. This will prevent students from skipping classes.