Agricultural Engineering Technology BS

Goal 1-Develop Professional Marketplace Skills

Goal Description:

Students earning a BS in Agricultural Engineering Technology will have the skills necessary to seek initial job placement as they begin their professional careers.

Providing Department: Agricultural Engineering Technology BS

Progress: Completed

RELATED ITEMS/ELEMENTS -

RELATED ITEM LEVEL 1

Learning Objective 1- Professional Online Identity

Learning Objective Description:

Students will develop a professional online identity.

RELATED ITEM LEVEL 2

Indicator 1- LinkedIn Profiles

Indicator Description:

All students seeking a degree in Agricultural Engineering Technology are required to complete AGRI 4120 as upperclassmen. During the completion of this course all students must develop a professional online identity using LinkedIn. Profiles are evaluated using a faculty-developed rubric, which is attached to this assessment plan.

Criterion Description:

Our expectation is that 90% of students will achieve at least a 70% or greater on all aspects of the rubric.

Findings Description:

95% of all AGET students enrolled in AGRI 4120 created a Linked in profile with a 70% or more competency on all aspects of the rubric.

RELATED ITEM LEVEL 3

1- LinkedIn Profiles

Action Description:

Greater than 70% of AGET majors completed a LinkedIn profile. Our goal is to have 75% of all AGET majors complete this assignment in the future.

RELATED ITEM LEVEL 1

Learning Objective 1-Professional Marketplace Skills

Learning Objective Description:

Students will demonstrate job application and interview skills.

Attached Files

📄 AGRI 4120 Portfolio Rubric Matrix

RELATED ITEM LEVEL 2

Indicator 1-AGRI 4120- Professional Employment Portfolio

Indicator Description:

All students seeking a degree in Agricultural Engineering Technology are required to complete AGRI 4120 in their senior year. The course addresses essential skills necessary for job placement in the work force- resume preparation, interview skills, technical writing skills and employment

opportunities. Faculty will review student assignments compiled into a portfolio and assess student performance using a faculty-developed rubric.

Attached Files
📄 AGRI 4120 Portfolio Rubric Matrix AGET.docx

Criterion Description:

We expect that at least 80% of AGET students enrolled in AGRI 4120 would perform at an acceptable level and score a 70%, for each of the components within the three parts of the portfolio. We plan to collect data until there are 100 students in the dataset.

Findings Description:

90% of all AGET students enrolled in AGRI 4120 performed at an acceptable level and scored a 70% or higher on all three parts of the portfolio.

RELATED ITEM LEVEL 3

1- AGRI 4120- Professional Employment Portfolio
Action Description:

70% of all AGET majors completed the Professional Employment Portfolio in AGRI 4120 in the fall 2023 and fall 2024 semesters. Our goal in the future is to have 75% of all AGET majors complete this project in the future with a C or better for a grade.

Goal 2-Knowledge of Key Disciplinary Concepts and Skills

Goal Description:

Increase students' knowledge of key concepts and skills in agricultural engineering technology.

Providing Department: Agricultural Engineering Technology BS

Progress: Completed

RELATED ITEMS/ELEMENTS -

RELATED ITEM LEVEL 1

Learning Objective 2-Development of Students' Knowledge of Key Disciplinary Concepts and Skills
Learning Objective Description:

During their enrollment in the program, students will be required to complete assignments that demonstrate competency in key STEM areas (physics, math, and technology) associated with Agricultural Engineering Technology (AGET).

RELATED ITEM LEVEL 2

Indicator 2-AGET 4387 Students' Knowledge of Key Disciplinary Concepts and Skills
Indicator Description:

All students enrolled in the Agricultural Engineering Technology (AGET) program must complete AGET 4387. The course addresses key concepts in AGET and STEM skills (technology, math, and engineering - physics) relevant to AGET. The average of all course exams will be reviewed by faculty members with expertise in the field of AGET. Faculty members will score the assignments.

Attached Files
📄 AGET 4381 Rubric.docx

Criterion Description:

At least 70% of the students enrolled in AGET 4387 will perform at an acceptable level with an assessed score of 70% or higher. Students continually demonstrate a high degree of success on this assessment item. We plan to continue to collect data on this item due to it's high level of importance in the major.

Findings Description:

100% of all AGET 4387 students earned a 70% or higher in the course.

2-AGET 4381- Students' Knowledge of Key Disciplinary Concepts and Skills
Action Description:

This course was not offered in AY 2024. We would like to accept AGET 4381 or AGET 4387 as a capstone course in the future for the AGET program.

Goal 3- Safety and Employability Skills

Goal Description:

Students will demonstrate mastery of basic safety standards in an Agricultural Engineering Technology workplace.

Providing Department: Agricultural Engineering Technology BS

Progress: Completed

RELATED ITEMS/ELEMENTS ---

RELATED ITEM LEVEL 1

Learning Objective 3 -Safety and Employability Skills
Learning Objective Description:

Students will demonstrate industry-standard safety skills during the completion of AGET 4387.

RELATED ITEM LEVEL 2

Indicator 3- AGET 4387- Students' Safety Skills
Indicator Description:

Due to safety rules and regulations often followed by business and industry (OSHA), potential future employees are required to have a working knowledge of key personal protection equipment (PPE). This knowledge of PPE is required to successfully gain employment in the agricultural engineering technology sector and to safely manage employees/students. To facilitate the education of our students, safety rules/PPE/safe working procedures will emphasized in each laboratory activity. Furthermore, a daily safety grade will be recorded for each student regarding the use of PPE and safe working habits.

Criterion Description:

At least 70% of students will achieve a safety grade of at 70%. Students continue to demonstrate a high level of success on this assessment item. We plan to continue collecting data on this item due it's critical importance in the major.

Attached Files
📄 Safety - Employability Skills Grading Rubric.docx

Findings Description:

100% of students in AGET 4387 received a safety grade of a C or higher.

RELATED ITEM LEVEL 3

3-AGET 4381- Students' Safety Skills
Action Description:

AGET 4381 was not offered in AY 2024. In the future, we would like AGET 4381 or AGET 4387 to be offered as a capstone course.

Update to Previous Cycle's Plan for Continuous Improvement

Previous Cycle's Plan For Continuous Improvement (Do Not Modify):

Closing Summary

After reviewing the specific Goals/Objectives/Indicators of this program, the faculty in agriculture have determined that these items do not wholly reflect the needs and goals of our current students. As a result, we will reevaluate all Goals/Objectives/Indicators to better match the needs of our program and the students who are part of it. It is expected that this will require a deep look at what is considered success in this area and will likely cause significant change to the Goals/Objectives/Indicators for the coming academic year.

Update of Progress to the Previous Cycle's PCI:

We have reviewed the Goals/Objectives/Indicators for this program that were used in AY 2023, and after evaluation, established this set of Goals/Objectives/Indicators used in AY 2024. We believe that this current assessment program measures what is important to indicate the success of the program.

New Plan for Continuous Improvement

Closing Summary:

We would like to integrate AGET 4387 as an option for capstone data analysis as well since AGET 4381 is not offered every academic year.

Also, we would like to increase the completion rate of projects in AGRI 4120 to a 75% or better with a grade of C or above.