

Online Assessment Tracking Database

Sam Houston State University (SHSU)
2014 - 2015

Agricultural Engineering Technology BS

Goal **Knowledge Of Key Concepts And Skills** 🔑
Increase students' knowledge of key concepts and skills in agricultural engineering technology.

Objective (L) **Development Of Students' Knowledge And Skills** 🔑
During their enrollment in the program students will be required to complete assignments that require students to demonstrate competency in key STEM areas (physics, math, and technology) associated with Agricultural Engineering Technology (AET).

Indicator **Advanced AET Course Assignment Rubric** 🔑 🔑
All students enrolled in the AET program must complete a capstone course (AGRI 4381) course. The course addresses key concepts in AET and STEM skills (technology, math, and engineering - physics) relevant to agricultural engineering technology. Seven randomly selected student assignments and projects will be reviewed by faculty members with expertise in the field of agricultural engineering technology. Faculty members will score the assignments using a scale of 1 - 5 with 3 "meets expectations," 4 "exceeds expectations," and 5 "far exceeds expectations."

Criterion **At Least 70% Rated As Meeting Expectations** 🔑
At least 70% of the students enrolled in an advanced AET course will perform at an acceptable level with an assessed score of 3 (meets expectations) or higher.

Finding **AET Outcome Assessment** 🔑
Expectations were exceeded by the 20 reviewed AET student activities with the average being 100% rated as "meets expectations" or higher. Students averaged 3.9/5 overall, however, they scored 3.7 and 3.8 in knowledge and application of technical skill and performance of skill; respectively. These technical and application skills were the lowest of all other categories assess on the rubric.

Action **Modifications** 🔑
Student outcomes were the weakest in areas of technical skill, application of knowledge and performance of skills. The course is a very lab intensive structure, therefore, faculty will require more outside learning and reading with assignments and problem sets that will strengthen STEM area weaknesses and technical knowledge.

Goal **Develop Professional Skills** 🔑
Students earning a BS in Agricultural Engineering Technology will learn the skills necessary for seeking jobs placement and technical writing in

the work place.

Objective (L)

Development Of Marketplace Skills 🔑

Students completing the BS in Agricultural Engineering Technology will demonstrate soft skills necessary to compete in the professional marketplace. These skills include professional writing and communication.

Indicator

AGRI 4120 Assignment Rubric 🔑

All students seeking a degree in Agricultural Engineering Technology will be required to complete AGRI 4120 during their senior year. The course addresses essential skills necessary for job placement in the workforce for agriculture employment - resume preparation, interview skills, technical writing skills and employment opportunities. Faculty will review student assignments and assess student performance on selected assignments using a faculty-developed rubric.

Criterion

70% Of Students Rated As Meeting Expectations 🔑

Faculty evaluations will indicate that at least 70% of the AET students enrolled in AGRI 4120 will perform at an acceptable level and score a 3 (meets expectations) or higher on a scale of 1-5. Technical writing skills with emphasis on cohesiveness and concise writing were concerns from previous evaluation and continues to be an area addressed.

Finding

Technical Writing Skills 🔑

The goal for AET students was not achieved with an average score of 2.89 out of a possible 5.0 by assessing assignments from 5 of the 11 enrolled students. Technical writing skills and resumes were minimally acceptable yet organization of portfolio is a weakness needing improvement.

Action

Improvement In Technical Writing 🔑

Focusing students on importance of key elements in resume writing and cover letter in class proved to be beneficial in improving scores for cohesiveness and concise writing; however, students fell short on other technical aspects.

Previous Cycle's "Plan for Continuous Improvement"

Professor will continue to emphasize the use of the writing center and AET faculty will continue to implement writing across the AET courses.

Please detail the elements of your previous "Plan for Continuous Improvement" that were implemented. If elements were not implemented please explain why, along with any contextual challenges you may have faced that prevented their implementation.

Improvement were noted in writing, however, technical skills and writing are still a concern.

Plan for Continuous Improvement - Please detail your plan for improvement that you have developed based on what you learned from your 2014 - 2015 Cycle Findings.

Technical AET skills and their application are a major concern of faculty. Students will have more out of class assignments and readings to improve technical knowledge of AET and STEM core concepts.

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