Annual Academic Assessment Report

(PhD/FOOD SCIENCE)

(May 19, 2022)

1. Results of analysis of assessment of Student Learning Outcome (SLO)

The Student Learning Outcomes provided below are those related to Technical Knowledge.

SLO 1: Demonstrate advanced knowledge and understanding in their area of emphasis.

1. SLO 1 was assessed in Summer 2021, Fall 2021, and Spring 2022 by each student's graduate committee during the defense for all in FDSC PhD students (n=3). A determination by the committee is made individually based on information presented by students and through questions posed to the student. Graduate committees design a line of questioning allowing the determination the depth of knowledge of the student in their specialty area.

   Acceptable and **Ideal Targets**
   - Acceptable Target: No students in the novice category, 80% of students in the Advanced or above category and at least 20% of students in the Expert category.
   - Ideal Target: 100% in the Advanced or Expert category.

2. Key Findings for SLO 1:

	Novice	Intermediate	Advanced	Expert
Technical knowledge in core scientific area (food chemistry, microbiology, etc.)	0	0	1	2

3. Interpretation of key findings in connection to student learning:
   - Both the ideal and acceptable targets were met.
   - The results are consistent with previous assessment years and indicate our PhD students are meeting or exceeding the program expectations. Based on this, the data are indicative of a PhD program in FDSC that provides a solid foundation for our students.

4. Description of anticipated actions for improvement of teaching and learning based on key findings:
   - Based on the limited sample size and high ranking of these students, it is difficult to make specific recommendations to improve technical knowledge in food science core areas at this time.

SLO 2: Demonstrate sufficiently broad knowledge across food science and/or nutrition disciplines outside of their core specialty area.

1. SLO 2 was assessed in Summer 2021, Fall 2021, and Spring 2022 by each student's graduate committee during the defense for all in FDSC PhD students (n=3). A determination by the committee is made individually based on information presented by students and through questions posed to the student. Graduate committees design a line of questioning allowing the determination the depth of knowledge of the student in their specialty area.

   Acceptable and **Ideal Targets**
   - Acceptable Target: No students in the novice category, 80% of students in the Advanced or above category and at least 20% of students in the Expert category.
   - Ideal Target: 100% in the Advanced or Expert category.

2. Key Findings for SLO 2:

	Novice	Intermediate	Advanced	Expert
Technical knowledge outside of the core research area	0	0	2	1

3. Interpretation of key findings in connection to student learning:
   - Both the ideal and acceptable targets were met.
   - The results are consistent with previous assessment years and indicate our PhD students are meeting or exceeding the program expectations. Based on this, the data are indicative of a PhD program in FDSC that provides a solid foundation for our students.

4. Description of anticipated actions for improvement of teaching and learning based on key findings:
   - Based on the limited sample size and high ranking of those students, it is difficult to make specific recommendations to improve technical knowledge in food science core areas at this time.

2. Any changes to degree/certificate planned or made on the basis of the assessment and analysis

No changes to the degree program have been planned nor were made on the basis of the assessment and analysis. However, we are actively working on updating graduate course offerings for our PhD students.

3. Any changes to the assessment process made or planned.

No changes to the assessment process have been made or planned.