

Annual Academic Assessment Report

(CP/BREWING SCIENCE)

(May 14, 2024)

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

The Student Learning Outcome provided below is related to the Certificate of Proficiency in Brewing Science.

SLO BS.3. Create, produce and analyze a beer from grain to glass

1. SLO BS.3 was assessed in Fall 2023 in BREW 45703/55703 Production design and analysis of Beer. Two Learning Assessment Techniques (LAT) were used to assess BS.3:

LAT 1 (Oral Presentation): students presented at the end of the course on the beverage they produced/ analyzed in the course to a committee demonstrating their knowledge and experiences in the brew industry. The oral presentation is worth 120 points.

LAT 2 (Poster): Poster presentation highlighting the design processes carried out over the course of BREW 45703/55703 Production design and analysis of Beer. Rubric assesses creativity and skill used in the beer design project in BREW 45703/55703 on the processes to make beer and analytical measurements to measure beer quality. The poster was worth 120 points.

B. Acceptable and Ideal Targets (not required for indirect measures).

Poster (120 total); Oral (120 total), it is expected that an acceptable score to be a 84/120, an ideal (meets expectations) score to be 96/120, and exceeding expectations to be 108/120. A nonacceptable score would be < 84/120. We will report on the students performing at each of these levels.

2. Key Findings for SLO BS.2:

LAT 1 (Oral Presentation): 4/4 students scored > 108 points.

LAT 2 (Poster Presentation): 4/4 students scored > 108 points.

3. Interpretation of key findings in connection to student learning:

LAT 1 (Oral Presentation): The first data point indicates that ELO [BS 3] was met and students are exceeding expectations.

LAT 2 (Poster): The second data point indicates that ELO [BS 3] was met and students are exceeding expectations.

4. Description of anticipated actions for improvement of teaching and learning based on key findings:

As Fall 2023 was the first occurrence of BREW 4573 we would like to see the ELO continue to be met with a greater number of students to better evaluate changes to be made. The pre assessment was not collected for these students in FDSC 4523 as Dr. Lafontaine was not instructing these students for this course. The students graduating took Brewing Science from another instructor (Dr. Bacon). Moving forward, we should have pre and post assessments for our students.

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

No changes to the degree program are planned nor were made on the basis of the assessment and analysis.

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

Due to the difficulty of assessing SLO1 over two courses we are modifying this to be a cumulative theoretical exam in FDSC 45203/55203 – Brewing Science.

We are also adding an additional SLO3 to assess the development of creativity over the course of the BREWCP. This will be assessed via a poster presentation and an oral presentation in the capstone course of the BREWCP BREW 45703/55703 Production design and analysis of Beer.

We assessed this new learning outcome this year.