SLO 1: General chemistry content
Students will demonstrate proficiency in general chemistry content.

Related Measures

M 1: Mastering Chemistry assignments
Scores on Mastering Chemistry assignments in CHEM 1018.
Source of Evidence: Standardized test of subject matter knowledge
Target:
Students will perform 80 percentile compared to national performance on Mastering Chemistry assignments. Department will also examine if our students have improved over time in addition to reporting the percentile.

M 2: ETS Major Field Test
ETS Major Field Test - Chemistry Completed in final semester of degree program.
Source of Evidence: Standardized test of subject matter knowledge
Target:
Students will perform in the 70th percentile or better on the nationally normed ETS Major Field Test in Chemistry.

SLO 2: Multi-disciplinary teams
Students demonstrate ability to work effectively in multi-disciplinary teams.

Related Measures

M 3: Teamwork assessment rubric
Students will be assessed on teamwork skills in lab settings (CHEM 2025 and 3027) in which they work on specific lab assignments in small groups. Assessment will be based on collaboration skills and demonstration of competence in team efforts using standardized rubric.
Source of Evidence: Academic direct measure of learning - other
Target:
80% of students will score satisfactory or above on the rubric for CHEM 2025 in Fall semesters and CHEM 3027 in Spring semesters.

SLO 3: Independent research
Students are able to conduct independent research and are savvy consumers of published research.

Related Measures

M 6: Oral and written competence
Jury judge oral and written competence of undergraduates as part of CHEM 3094.
Source of Evidence: Academic indirect indicator of learning - other
Target:
100% of the students will achieve a B or better on their presentations and papers.

SLO 4: Preparation for graduate programs
Students will be prepared to enter graduate programs in chemistry or related areas of study.

Related Measures

M 7: BS graduates enrolling in graduate programs
Review the number of BS graduates enrolling in M.S. and Ph.D. programs in chemistry and related sciences.
Source of Evidence: Alumni survey or tracking of alumni achievements
Target:
25% of BS graduates enroll in graduate programs in chemistry and related sciences immediately following graduation, based on self-reported data from the Undergraduate Exit Survey.

M 8: Exit survey
Students will complete exit surveys and will be asked about their 1) overall satisfaction with their program experience 2) perceived level of preparedness for advanced study.
Source of Evidence: Exit interviews with grads/program completers
Target:
At least 80% of BS graduates who plan to enter into graduate programs will indicate that they feel prepared for advanced student in chemistry and related sciences, as evidenced by self-reported data on the Undergraduate Exit Survey.

SLO 5: Student satisfaction
The department will maintain high student satisfaction with the program.

Related Measures
M 8: Exit survey
Students will complete exit surveys and will be asked about their 1) overall satisfaction with their program experience 2) perceived level of preparedness for advanced study.

Source of Evidence: Exit interviews with grads/program completers

Target:
At least 80% of students rank their program experience as satisfactory or better on the Undergraduate Exit Survey.

M 9: Student course evaluations.

Source of Evidence: Student satisfaction survey at end of the program

Target:
All concentration level and elective courses required of the degree will achieve at least 2.8 out of 5.0 for overall quality of course.