**Closing the Loop template** Please see resources at the Academic Planning website http://air.sfsu.edu/assessment/resources

**Department:** School of Engineering

**Department Contact:** A. S. (Ed) Cheng

**College:** College of Science and Engineering

*Please list your program learning goals.*

The program learning goals for the School of Engineering are aligned with ABET’s student outcomes, as documented in ABET Criterion 3. They are as follows:

(a) an ability to apply knowledge of mathematics, science, and engineering;
(b) an ability to design and conduct experiments, as well as to analyze and interpret data;
(c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability;
(d) an ability to function on multidisciplinary teams;
(e) an ability to identify, formulate, and solve engineering problems;
(f) an understanding of professional and ethical responsibility;
(g) an ability to communicate effectively;
(h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
(i) a recognition of the need for, and an ability to engage in life-long learning;
(j) a knowledge of contemporary issues;
(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

*What assessment finding(s) is the department addressing?*

The School of Engineering has addressed several findings in the lead-up to the ABET accreditation visit scheduled for AY 2017-18. Among these findings is a deficiency in student outcome (g), specifically with respect to technical report writing.

*What was the process through which faculty considered a response to those findings? A department meeting? A special meeting about assessment? An end of the semester or academic year retreat? A department assessment or curriculum committee?*
All assessment activities are carried out by the School of Engineering’s Outcomes and Assessment Committee (OAC). This committee holds regular meetings to discuss assessment issues.

*What changes have you made or are you seeking to make in order to address the findings?*

With regards to student outcome (g), the OAC, in consultation with instructors of courses requiring experimental reports, developed revised report-writing guidelines, and also prepared sample technical memos and formal reports that could be used as exemplars by the students.

*What assessment activities do you plan to undertake next academic year? Is there a particular program learning goal that you would like to assess? Are there other assessment findings that you’d like to address? In light of your assessment work, changes in the field, or other influences, do you want to take the opportunity to revise the program goals next year? Will you move on to assess a different learning goal?*

The primary activity for AY 2017-18 is to prepare for and facilitate ABET’s accreditation visit. Following the visit, the OAC will develop specific immediate and longer-term actions to address the findings of the ABET evaluators.

*NOTE: The School of Engineering is in the process of preparing detailed self-study reports to document all of their program assessment activities for the current ABET accreditation cycle (from AY 2012-13 to present). A copy of these reports will be provided to the Office of Academic Planning in early July, 2017.*