Academic Program Assessment
M.S. degree program in Statistics and Analytics (STANMS)
Submitted by Mark Arnold, Program Director
5/5/16

Assessment of Student Learning

Indirect:

Curriculum and career advising before each semester (addresses outcomes (1-7). Scripted advising meeting includes student ratings of knowledge, skills and reflections of previous academic term.
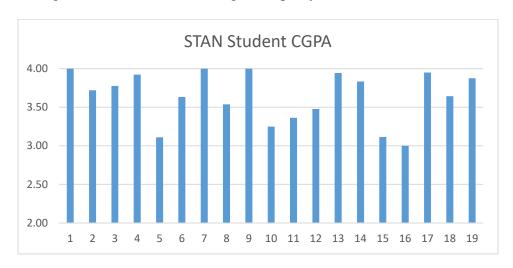
All of the students rated their knowledge and skill-set improvement as satisfactory to excellent.

Annual student performance reviews (addresses outcomes 1-8).
GSIE annual review form addended with STAN self-assessment form.

All (17) currently enrolled STAN MS students made "satisfactory progress" toward their degree (our performance only distinguishes between "satisfactory" and "unsatisfactory" progress). In addition, two students who graduated 12/2016 were not given performance reviews.

Course grades (addresses outcomes 1-8).
Graduation requires a grade point average of at least 3.0.

Nineteen students were STAN students in December 2015. The following statistics are based on all 19 as of the end of the spring 2015 term: Cumulative grade point average (CGPA) for each student is listed in the chart below. The average CGPA (each student weighted equally) is 3.64.

STAN Student CGPA

Formal exit interviews (addresses outcomes 1-8).
Scripted interview requesting student ratings of their growth and their perspective on the health and efficacy of the program.

Only two students have graduated from the STAN MS program (12/2016). One is working in industry and one is enrolled in a PhD program. Both students indicated agreement with "This program encouraged personal growth toward my career goals" and "This program facilitates stated skill and knowledge development". Both students indicated desire for a STAN PhD degree program.

Direct:

Annual student performance reviews (addresses outcomes 1-8).
GSIE annual review form provides ratings of student progress by supervisor.

All (17) currently enrolled STAN MS students made "satisfactory progress" toward their degree (our performance only distinguishes between "satisfactory" and "unsatisfactory" progress. In addition, two students graduated 12/2016.

MS Comprehensive examination (addresses outcomes 1-8).
Each track has examination rubric.

Three Students completed STAN *comprehensive examinations*. All 3 passed on first attempt. The following is based on a scale of 0 (not pass), 1 (pass), 2 (good), 3 (very good) and 4 (excellent):
　　　Two of the three received 2, and one received 1. Average was 1.67.

Two Students defended *MS theses*. Both theses were accepted with revisions, and have been submitted. The following is based on a scale of 0 (not pass), 1 (pass), 2 (good), 3 (very good) and 4 (excellent):
　　　Both students received 3 for the defense and 2 for the thesis. Average was 2.5.