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

> 34 of 35 currently enrolled STAN MS students made "satisfactory progress"
> toward their degree (our performance only distinguishes between "satisfactory"
> and "unsatisfactory" progress). The student receiving unsatisfactory progress was
> in the first semester of graduate study, and STAN advisors are working with the
> student to address the situation. In addition, four students who graduated 12/2017
> were not given performance reviews.

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

> 35 students were STAN students in December 2017. The following statistics are
> based on all 35 as of the end of the spring 2017 term: The average CGPA (each
> student weighted equally, not by number of completed hours) is 3.71. The lowest
> was 2.25, and the standard deviation was 0.346.

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.

> Nine students graduated from the STAN MS program (1/2017-12/2017). Four are
> working in industry and five are enrolled in a PhD program. All students
> indicated agreement with "This program encouraged personal growth toward my
> career goals" and "This program facilitates stated skill and knowledge
> development". Four 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.

> 34 of 35 currently enrolled STAN MS students made "satisfactory progress" toward their degree (our performance only distinguishes between "satisfactory" and "unsatisfactory" progress. In addition, nine students graduated in 2017.

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

> Four 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):
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> > The average score was 3.0.

> Five Students defended *MS theses*. All 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):
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> > The average score was 2.5.