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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.

> All (27) currently enrolled STAN MS students made "satisfactory progress"
> toward their degree (our performance only distinguishes between "satisfactory"
> and "unsatisfactory" progress). In addition, three 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.

> 27 students were STAN students in December 2016. The following statistics are
> based on all 24 as of the end of the spring 2016 term: The average CGPA (each
> student weighted equally) is 3.67. The lowest was 3.0, and the standard deviation
> was 0.334

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.

> Ten students graduated from the STAN MS program (1/2016-12/2016). Seven
> are working in industry and three 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". Five 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 (27) currently enrolled STAN MS students made "satisfactory progress"
> toward their degree (our performance only distinguishes between "satisfactory"
> and "unsatisfactory" progress. In addition, ten students graduated in 2016.

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

> Seven 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):
> > Five of the seven received 2, and 2 received 1. Average was 1.71.

> Three 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):
> > The average score was 2.4.