

Reflecting on the assessments performed in AA 5300, AA 5800, and AA 5963, it is clear that the recent changes made within AA 5000 (which is a key pre-requisite to both AA 5300 and AA 5800) were largely helpful. In addition, it was evident that the changes made to the content and its delivery in AA 5300 were also helpful. Additionally, a weakness in the choice of learning materials (specifically, code) used in AA 5800 became apparent.

Overall, most of the students who completed the program's capstone – the final credit hour of the three-part master's research project sequence – AA 5963 – were well prepared to:

- a) take on the challenge of independently (with some mentoring from the program director, as needed);
- b) defining an organizational problem and assigning a reasonable scope to it;
- c) designing and implementing an analytics-based system for addressing it and aiding decision-making in that context

The one exceptional student who did not perform well also ended up having difficulties in earlier coursework (specifically, both AA 5300 and AA 5800), stemming from other challenges in her life.

Synthesizing these findings, here are the next steps:

1. continue with the approach used in AA 5300;
2. revisit the choice of coding-related content of AA 5800: use a combination of material from the textbook's author initially in the course, and switch to a wider variety of code libraries and associated code syntax in later part of the course, to increase student's fluency with writing the code needed for building sophisticated statistical models;
3. continue to carefully monitor student performance in courses leading up to the master's research project to ensure that students are adequately prepared to take on the challenge of independent, context-specific research and design + implementation of analytics systems based on such research.

6. Closing the Loop: Dissemination and Use of Current Assessment Findings

- A. When and how did your program faculty share and discuss these results and findings from this cycle of assessment?

The program director will, through one-one meetings, share the findings of this cycle of assessment with the faculty teaching other courses in the program, specifically those courses that are related to this learning outcome and/or are pre-requisites for courses that address this learning outcome. In particular the following course's instructors will be informed and made aware of the larger context of assessment: AA 5100: Information Retrieval; AA 5200: Information Visualization and Presentation; AA 5750: Contemporary Issues in Analytics. This will help them prepare for having their courses being part of the next cycle of assessment.

- B. How specifically have you decided to use findings to improve teaching and learning in your program? For example, perhaps you've initiated one or

If no changes are being made, please explain why.

7. Closing the Loop: Review of Previous Assessment Findings and Changes

A. What is at least one change your program has implemented in recent years as a result of assessment data?

During the previous assessment cycle, changes were made to AA 5000: Foundations of Analytics, which is a key pre-requisite to AA 5300 and AA 5800. During the current academic year, changes were made the ch0-1.9 (-0.7 (g t)-5.9 (h)

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