

# Mathematics Department

## Unit-Level Assessment Liaison Report

### Spring 2017

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# What Did We Do?

Starting spring 2017, Mathematics Department decided to create an assessment for Math 118 – General Education Mathematics course.

- This course is designed to fulfill general education requirements.
- Spring 2017 was the first semester in which we offer Math 118 in all three formats: face-to-face, hybrid and online.
- It is the only college level course for which the instructor selects 4 out of 12 topics to be taught.
- At our college, this course is mainly taught by part time faculty.

# Identify Student Learning Outcome

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- The Student Learning Outcomes for this course are specifically presented for each of the 12 possible topics of the course.
- A district wide committee worked together to determine 3 common SLOs for Math 118 that students can meet no matter what topics are taught in the course.
- The MDAC (Mathematics Department Assessment Committee) analyzed these common SLOs and selected “Interpret and draw inferences from mathematical models such as formulas, graphs, tables, and schematics.” to investigate during this assessment cycle.

# Assessment Research and Design

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- The MDAC researched and reviewed different assessment tools and processes for our specific student learning outcome.
- Quantitative Reasoning Test - Madison Assessment LLC.
- We created a pilot assessment tool using Google Drive.



# Pilot Assessment Tool

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- Before the end of the Spring 2017 semester the pilot assessment was administered to students with collaboration from instructors teaching Math 118 via various formats, face to face, hybrid and online.
- In the course of two weeks, we were pleasantly surprised to record about 170 responses!



# Why Did We Do It?

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- The MDAC is planning to examine patterns and determine if the students' results are influenced by the specific topics covered in the course.
- To support our part-time faculty.
- All this information will help us narrow down strategies to enhance our teaching, with the goal of improving our students' learning.



# What Comes Next?

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- Spring 2017 semester, the extent of faculty involvement in the MDAC was substantial. Half of the full time faculty have worked together and successfully collaborated towards the same goal.
- We are eager to get into the analysis phase of the data from this pilot and we are looking forward to creating a proper assessment for our students in the Fall 2017 semester.
- We plan to expand the assessment beyond this pilot into two parts: a pre-test and a post-test, in order to analyze and identify more accurately where students are struggling, and to address their problems more efficiently.
- This will be a continuing process that will identify the goals, develop valid and reliable questions, gather and interpret data that will inform and help the enhancement of Math 118 courses.

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Thank you!

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