

2017-2018 Assessment Cycle

Assessment Plan

Measures

BS Computational Mathematics Outcome Set

Outcome

Outcome: DB_BSCM_PO_05

Students will use theoretical foundations of statistics to analyze a data set.

▼ **Measure:** Class Project
Course level; Direct - Student Artifact

Details/Description:	A project will be given to the class MA412 for which students will have to apply theoretical concepts to perform the data analysis. The project report will be assessed with the provided rubrics.
Criterion for Success:	75% of the class will score 80% or above on the project.
Timeframe of Data Collection:	Fall and Spring 2017-2018
Key/Responsible Personnel:	MA412 faculty and program coordinator.

▼ **Measure:** Student survey
Course level; Indirect - Survey

Details/Description:	A short survey will be given to the MA 412 student sometime after the Data project and the end of the term. The survey will contain questions related to the program outcome. The questions will be rated from 1 to 5, 1 being " do
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Criterion for Success: not agree at all" and 5 being " absolutely agree".
The average of the student response to the survey will be 3.25 or higher.

Timeframe of Data Collection: Fall 2017 and Spring 2018

Key/Responsible Personnel: MA412 faculty and program coordinator.

Supporting Attachments:

[MA412 survey.pdf \(Adobe Acrobat Document\)](#)

Outcome: DB_BSCM_PO_08

Students will work effectively in teams to solve a scientific problem with significant mathematical content.

▼ **Measure:** Student survey
Course level; Indirect - Survey

Details/Description: A student survey with questions related to program outcomes will be given in MA440. Each question will be graded from 1 to 5, 1 being "do not agree at all" and 5 being "absolutely agree"). the survey will be a google form administrated by a CTLE member.

Criterion for Success: The overall average student response will be a 3.25 or higher.

Timeframe of Data Collection: Fall 2017

Key/Responsible Personnel: MA 440 Faculty and program coordinator

Supporting Attachments:

[MA 440 Fall 2017 Survey- Hong Liu.pdf \(Adobe Acrobat Document\)](#)

▼ **Measure:** Team work projects

Course level; Direct - Student Artifact

Details/Description:	A team project will be assessed with the given rubric in MA440
Criterion for Success:	70% of the class will score 80% or above on the rubrics (B on the rubrics)
Timeframe of Data Collection:	Fall 2017
Key/Responsible Personnel:	MA 440 Faculty and program chair

Outcome: DB_BSCM_PO_09

Students will be able to prepare a written scientific project reports on their results to communicate mathematical ideas effectively.

▼ **Measure:** Student survey

Course level; Indirect - Survey

Details/Description:	The students will answer a survey after their team project is completed and graded. The survey will contain questions related to the program outcome. Each question will be rated from 1 to 5, 1 being " do not agree at all" and 5 being " can not agree more". The survey will be a Google form administrated by a CTLE member
Criterion for Success:	The survey average will be above 3.25.
Timeframe of Data Collection:	Fall 2017
Key/Responsible Personnel:	Ma440 faculty and program coordinator.

Supporting Attachments:

 MA 440 Fall 2017 Survey- Hong Liu.pdf (Adobe Acrobat Document)

▼ **Measure:** Team project report
Course level; Direct - Student Artifact

Details/Description:	In MA440, each team of students will write a report for their team project. The report will be graded according to the rubrics provided below.
Criterion for Success:	75% of the students will score 80% or higher on the report.
Timeframe of Data Collection:	Fall 2017
Key/Responsible Personnel:	MA440 faculty and program coordinator.

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