Academic year 2024-2025

MS in Computational and Quantitative Methods - MS-MCQM Learning Outcomes

Statistical Knowledge

At least 80% of students will demonstrate excellent knowledge of statistical concepts by successfully completing selected problems in Math 5381 or Math 5300.

MEASURES	RESULTS	ACTIONS
Stat Knowledge - Advance Stat Methods Direct - Portfolio *Adv Statistical Methods: MATH 5381* **Target** Two samples of written work will be gathered from Math 5381 students. These may be taken from any in-class assessment and must directly involve content knowledge new to this course. Samples will be scored on the content knowledge rubric and students are expected to score a 6 or higher (out of 9).	*No results have been added.*	*No actions have been added.*
Stat Knowledge - Regression Direct - Portfolio *Regression Analysis: MATH 5300* **Target** Two samples of written work will be gathered from Math 5300 students. These may be taken from any in-class assessment and must directly involve content knowledge new to this course. Samples will be scored on the content knowledge rubric and students are expected to score a 6 or higher (out of 9).	*No results have been added.*	*No actions have been added.*

Analytical Knowledge

At least 80% of students will demonstrate excellent knowledge of statistical concepts by successfully completing selected problems in Math 5383 or Math 5382.

MEASURES	RESULTS	ACTIONS
Analytic Knowledge - Predictive Analysis Direct - Portfolio *Predictive Analytics: MATH 5383* **Target** Two samples of written work will be gathered from Math 5383 students. These may be taken from any in-class assessment and must directly involve content knowledge new to this course. Samples will be scored on the	*No results have been added.*	*No actions have been added.*

content knowledge rubric and students are expected to score a 6 or higher (out of 9).		
Analytic Knowledge - Time Series Analysis Direct - Portfolio *Time Series Analysis: MATH 5382* **Target** Two samples of written work will be gathered from Math 5382 students. These may be taken from any in-class assessment and must directly involve content knowledge new to this course. Samples will be scored on the content knowledge rubric and students are expected to score a 6 or higher (out of 9).	*No results have been added.*	*No actions have been added.*

Knowledge of Advanced Machine Learning

At least 80% of students will demonstrate excellent knowledge of statistical concepts by successfully completing selected problems in Math 5384.

MEASURES	RESULTS	ACTIONS
AML - mid semester sample Direct - Assignment *Advanced Machine Learning: MATH 5384* **Target** A sample of written work will be gathered from Math 5384 students around mid term. This may be taken from any in-class assessment and must directly involve content knowledge new to this course. Samples will be scored on the content knowledge rubric and students are expected to score a 6 or higher (out of 9).	*No results have been added.*	*No actions have been added.*
AML - end of course Direct - Assignment *Advanced Machine Learning: MATH 5384* **Target** A sample of written work will be gathered from Math 5384 students near the end of the course. This may be taken from any in-class assessment and must directly involve content knowledge new to this course. Samples will be scored on the content knowledge rubric and students are expected to score a 6 or higher (out of 9).	*No results have been added.*	*No actions have been added.*

MS in Computational and Quantitative Methods - MS-MCQM Success Outcomes

Prepare students for jobs or further graduate study in a related field

70% of our students will continue in graduate school or have a job within 6 months of completing their MS in CQM.

MEASURES
No measures have been added.

Internship

At least 30% of students will be placed in an internship in a related field prior to graduation.

MEASURES
No measures have been added.

Program satisfaction and efficacy

Students will complete an exit survey, responding to questions about their satisfaction with the program and allowing them to express concerns or suggest improvements to the program. This survey will be completed immediately prior to graduation.

MEASURES
No measures have been added.