

Quantitative Reasoning Results



Quantitative Reasoning Outcome:
Mount graduates will be able to apply college-level mathematical reasoning to analyze and explain real-world issues.

Proficiency Groupings

Fully Proficient

Rubric score of 3 or higher on each of the four criteria

Partially Proficient

Rubric score of 3 or higher on at least 1 of the four criteria

Beginning/Developing

Rubric score under minimum proficiency on all criteria

Achievement Key



Exceeded Goal

Students exceeded the performance goal for full proficiency



Met Goal

Students met the performance goal for full proficiency



Partially Met Goal

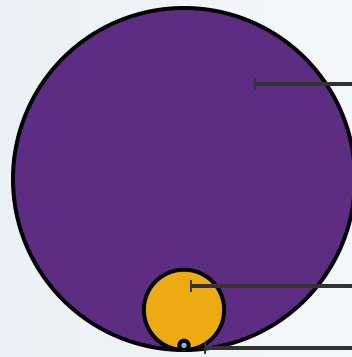
Students met some of the criteria for the performance goal



Striving to Meet Goal

Students did not meet the performance goal for proficiency

Overall

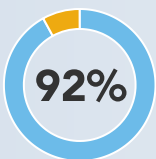


78% of MSMU students are FULLY PROFICIENT with Quantitative Reasoning criteria

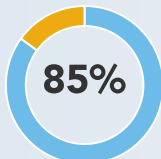
19% of MSMU students are PARTIALLY PROFICIENT with Quantitative Reasoning criteria

3% of MSMU students are at the beginning or developing stages of mastering proficiency with Quantitative Reasoning criteria

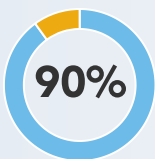
OVERALL QUANTITATIVE REASONING SKILLS (N=79)



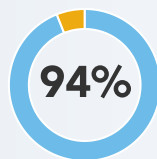
Are proficient at competence in applied analytic skills



Are proficient at mathematical problem-solving skills



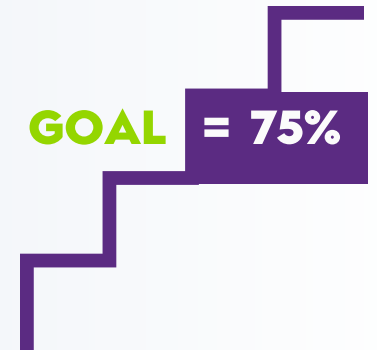
Are proficient at computation and arithmetic operations



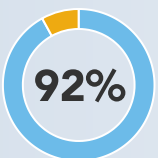
Are proficient at algebraic, trigonometric, or calculus operations that involve levels of abstraction



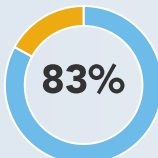
GOAL = 75%



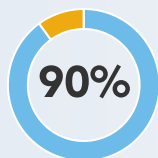
Freshman/Sophomore QUANTITATIVE REASONING SKILLS (N=60)



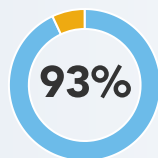
Are proficient at competence in applied analytic skills



Are proficient at mathematical problem-solving skills



Are proficient at computation and arithmetic operations



Are proficient at algebraic, trigonometric, or calculus operations that involve levels of abstraction

Overall Fresh/Soph



78%

FULLY PROFICIENT

19%

PARTIALLY PROFICIENT

3% BEGINNING/DEVELOPING

Frosh/Soph Fully Proficient

Rubric score of 2 or higher on each of the four criteria

Frosh/Soph Partially Proficient

Rubric score of 2 or higher on at least 1 of the four criteria

Spring 2021 Quantitative Reasoning Results Continued...

Junior/Senior QUANTITATIVE REASONING SKILLS (N=19)



Are proficient at competence in applied analytic skills



Are proficient at mathematical problem-solving skills



Are proficient at computation and arithmetic operations



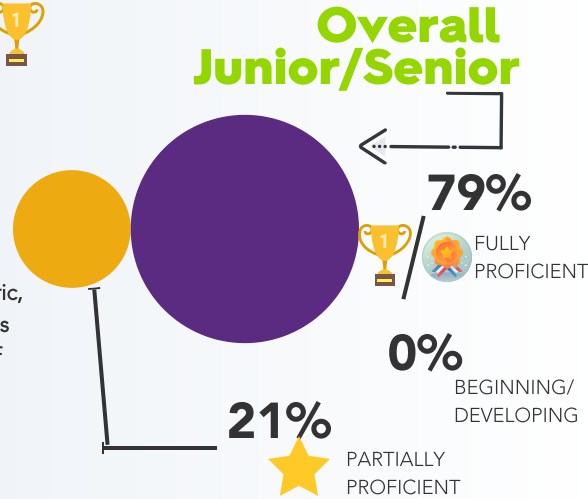
Are proficient at algebraic, trigonometric, or calculus operations that involve levels of abstraction

Junior/Senior Fully Proficient

Rubric score of 3 or higher on each of the four criteria

Junior/Senior Partially Proficient

Rubric score of 3 or higher on at least 1 of the four criteria



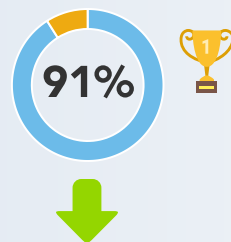
FIRST GENERATION QUANTITATIVE REASONING SKILLS (N=46)



Are proficient at competence in applied analytic skills



Are proficient at mathematical problem-solving skills



Are proficient at computation and arithmetic operations



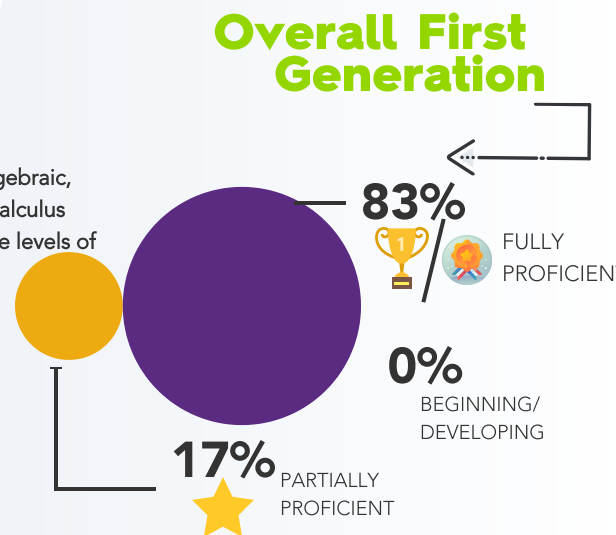
Are proficient at algebraic, trigonometric, or calculus operations that involve levels of abstraction

First Generation Fully Proficient

Rubric score of 3 on each of the four criteria

First Generation Partially Proficient

Rubric score of 3 on at least 1 of the four criteria



1

Continue to offer alignment workshops for the ILO/LACE outcomes OR create a recording that can be sent each year to instructors teaching Quantitative Reasoning courses.

2

Continue to offer norming sessions for faculty to use prior to scoring assignments.

3

The faculty made a few minor adjustments to the rubric in order to clarify the levels for some of the criteria. Also the last two criteria are very similar, so the group combined them and separated out checking the validity of the answer.

**ACTION
STEPS**

