

Course Student Learning Outcomes Assessment

**MATH 203L Fundamental Concepts of Elementary Mathematics Math
Lab**

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General Information (Course Student Learning Outcomes Assessment)

Standing Requirements

Course Description

Students in Mathematics 203L will receive individual and/or group instruction. The course is designed to review enhance and/or advance the students' mathematical knowledge based on their individual need in the fundamental concepts of elementary mathematics.

Course Student Learning Outcomes

MATH 203L Fundamental Concepts of Elementary Mathematics Math Lab Outcome Set

Outcome	
Outcome	Mapping
Outcome 1 Students will be able to classify and identify different problem types in the fundamental concepts of elementary mathematics and select suitable problem solving techniques.	Institutional Student Learning Outcomes: Act 1, Act 2, Communicate 1, Learn 1, Learn 2, Think 1, Think 2, Think 3
Outcome 2 Students will be able to identify and use applicable math study skills in the fundamental concepts of elementary mathematics.	Institutional Student Learning Outcomes: Act 1, Act 2, Communicate 1, Learn 1, Learn 2, Think 1, Think 2, Think 3

2014-2015 Assessment Cycle

Measurements

Outcomes and Measures

MATH 203L Fundamental Concepts of Elementary Mathematics Math Lab Outcome Set

Outcome

Outcome 1

Students will be able to classify and identify different problem types in the fundamental concepts of elementary mathematics and select suitable problem solving techniques.

▼ **Measure:** Math 203L - SLO1
Course level; Indirect - Survey

Description of Measurement Tool: Surveyed students about experience in the Math Study Hall. The survey focused on the overall quality of instruction, study skill improvement, recognizing different types of problems due to help in MaSH, and strengthening problem solving techniques. Students answered no improvement, little improvement, or great improvement.

Criteria for Success: Individual & Collective Student Criterion: Individually, success was rated as little or great improvement. Collectively, success is defined as 70% of the students reporting little or great improvement.

Cycle of Assessment: This outcome is assessed every year (course only offered in Spring).

For this report, the data was gathered in Spring 2015, collated, analyzed, reported, and discussed in Fall 2015, with recommendations implemented in Spring 2016.

Who is Responsible for Assessment Activity?: The Math Study Hall Coordinator.

Outcome 2

Students will be able to identify and use applicable math study skills in the fundamental concepts of elementary mathematics.

▼ **Measure:** Math 203L - SLO2
Program level; Indirect - Survey

Description of Measurement Tool: Surveyed students about experience in the Math Study Hall. The survey focused on the overall quality of instruction, study skill improvement, recognizing different types of problems due to help in MaSH, and strengthening problem solving techniques. Students answered no improvement, little improvement, or great improvement.

Criteria for Success: Individual & Collective Student Criterion: Individually, success was rated as little or great improvement. Collectively, success is defined as 70% of the students reporting little or great improvement.

Cycle of Assessment: This outcome is assessed every year (course only offered in Spring).

For this report, the data was gathered in Spring 2015, collated, analyzed, reported, and discussed in Fall 2015, with recommendations implemented in Spring 2016.

Who is Responsible for Assessment Activity?: The Math Study Hall Coordinator.

Findings

Finding per Measure

MATH 203L Fundamental Concepts of Elementary Mathematics Math Lab Outcome Set

Outcome

Outcome 1

Students will be able to classify and identify different problem types in the fundamental concepts of elementary mathematics and select suitable problem solving techniques.

▼ **Measure:** Math 203L - SLO1
Course level; Indirect - Survey

Description of Measurement Tool: Surveyed students about experience in the Math Study Hall. The survey focused on the overall quality of instruction, study skill improvement, recognizing different types of problems due to help in MaSH, and strengthening problem solving techniques. Students answered no improvement, little improvement, or great improvement.

Criteria for Success: Individual & Collective Student Criterion: Individually, success was rated as little or great improvement. Collectively, success is defined as 70% of the students reporting little or great improvement.

Cycle of Assessment: This outcome is assessed every year (course only offered in Spring).

For this report, the data was gathered in Spring 2015, collated, analyzed, reported, and discussed in Fall 2015, with recommendations implemented in Spring 2016.

Who is Responsible for Assessment Activity?: The Math Study Hall Coordinator.

Findings for Math 203L - SLO1

Summary of Findings: Questions on the survey that directly related were used to determine percentages:

Success Rates:
Recognize/classify different types of problems: 100%
Strengthen problem solving techniques: 100%

Overall: 100%

Results: Criteria for Success Achievement Status: Exceeded

Analysis of Findings: Looking at the data, all students felt they improved their problems solving techniques and their ability to recognize different types of problems due to the help they received in MaSH. This shows the Math Study Hall is effective and a great resource for students. The number of students who took the survey was small (9).

Recommendations: These results will be sent to current and past Math 60 instructors.

Encourage instructors to advertise the Math Study Hall as a resource for students to improve their learning, understanding, and study skills in their math courses. Continue to provide faculty, instructional assistants, and student tutors to assist students in the MaSH.

Outcome 2

Students will be able to identify and use applicable math study skills in the fundamental concepts of elementary mathematics.

▼ **Measure:** Math 203L - SLO2
Program level; Indirect - Survey

Description of Measurement Tool: Surveyed students about experience in the Math Study Hall. The survey focused on the overall quality of instruction, study skill improvement, recognizing different types of problems due to help in MaSH, and strengthening problem solving techniques. Students answered no improvement, little improvement, or great improvement.

Criteria for Success: Individual & Collective Student Criterion: Individually, success was rated as little or great improvement. Collectively, success is defined as 70% of the students reporting little or great improvement.

Cycle of Assessment: This outcome is assessed every year (course only offered in Spring).

For this report, the data was gathered in Spring 2015, collated, analyzed, reported, and discussed in Fall 2015, with recommendations implemented in Spring 2016.

Who is Responsible for Assessment Activity?: The Math Study Hall Coordinator.

Findings for Math 203L - SLO2

Summary of Findings: Questions that directly addressed study skills were used.

Strengthen Math Study Skills: 100%

Results: Criteria for Success Achievement Status: Exceeded

Analysis of Findings: Looking at the data, all students improved their problems solving techniques and study skills. This shows the Math Study Hall is effective and a great resource for students. The number of students who took the survey was small (9).

Recommendations: These results will be sent to current and past Math 60 instructors.

Encourage instructors to advertise the Math Study Hall as a resource for students to improve their learning, understanding, and study skills in their math courses. Continue to provide faculty, instructional assistants, and student tutors to assist students in the MaSH.

Overall Recommendations

No text specified

📋 Plans of Action

📋 Status Reports

2013-2014 Assessment Cycle

Measurements

Outcomes and Measures

MATH 203L Fundamental Concepts of Elementary Mathematics Math Lab Outcome Set

Outcome

Outcome 1

Students will be able to classify and identify different problem types in the fundamental concepts of elementary mathematics and select suitable problem solving techniques.

▼ **Measure:** Math 203L - SLO1
Course level; Indirect - Survey

Description of Measurement Tool: Surveyed students about experience in the Math Study Hall. The survey focused on the overall quality of instruction, study skill improvement, recognizing different types of problems due to help in MaSH, and strengthening problem solving techniques. Students answered no improvement, little improvement, or great improvement.

Criteria for Success: Individual & Collective Student Criterion: Individually, success was rated as little or great improvement. Collectively, success is defined as 70% of the students reporting little or great improvement.

Cycle of Assessment: This outcome is assessed every year (course only offered in Spring).

For this report, the data was gathered in Spring 2014, collated, analyzed, reported, and discussed in Fall 2014, with recommendations implemented in Spring 2015.

Who is Responsible for Assessment Activity?: The Math Study Hall Coordinator.

Outcome 2

Students will be able to identify and use applicable math study skills in the fundamental concepts of elementary mathematics.

▼ **Measure:** Math 203L - SLO2
Program level; Indirect - Survey

Description of Measurement Tool: Surveyed students about experience in the Math Study Hall. The survey focused on the overall quality of instruction, study skill improvement, recognizing different types of problems due to help in MaSH, and strengthening problem solving techniques. Students answered no improvement, little improvement, or great improvement.

Criteria for Success: Individual & Collective Student Criterion: Individually, success was rated as little or great improvement. Collectively, success is defined as 70% of the students reporting little or great improvement.

Cycle of Assessment: This outcome is assessed every year (course only offered in Spring).

For this report, the data was gathered in Spring 2014, collated, analyzed, reported, and discussed in Fall 2014, with recommendations implemented in Spring 2015.

Who is Responsible for Assessment Activity?: The Math Study Hall Coordinator.

Findings

Finding per Measure

MATH 203L Fundamental Concepts of Elementary Mathematics Math Lab Outcome Set

Outcome

Outcome 1

Students will be able to classify and identify different problem types in the fundamental concepts of elementary mathematics and select suitable problem solving techniques.

▼ Measure: Math 203L - SLO1 Course level; Indirect - Survey

Description of Measurement Tool: Surveyed students about experience in the Math Study Hall. The survey focused on the overall quality of instruction, study skill improvement, recognizing different types of problems due to help in MaSH, and strengthening problem solving techniques. Students answered no improvement, little improvement, or great improvement.

Criteria for Success: Individual & Collective Student Criterion: Individually, success was rated as little or great improvement. Collectively, success is defined as 70% of the students reporting little or great improvement.

Cycle of Assessment: This outcome is assessed every year (course only offered in Spring).

For this report, the data was gathered in Spring 2014, collated, analyzed, reported, and discussed in Fall 2014, with recommendations implemented in Spring 2015.

Who is Responsible for Assessment Activity?: The Math Study Hall Coordinator.

Findings for Math 203L - SLO1

Summary of Findings: Recognize/classify different types of problems: 95% (26% little improvement, 69% great improvement)
Strengthen problem solving techniques: 96% (30% little improvement, 66% great improvement)

Overall: 95.5%

Results: Criteria for Success Achievement Status: Met

Analysis of Findings: Looking at the data, almost all students felt they improved their problems solving techniques and their ability to recognize different types of problems due to the help they received in MaSH. This shows the Math Study Hall is effective and a great resource for students. The number of students who took the survey was small.

Recommendations: These results will be sent to current and past Math 203 instructors.

Encourage instructors to advertise the Math Study Hall as a resource for students to improve their learning, understanding, and study skills in their math courses. Continue to provide faculty, instructional assistants, and student tutors to assist students in the MaSH

Outcome 2

Students will be able to identify and use applicable math study skills in the fundamental concepts of elementary mathematics.

▼ Measure: Math 203L - SLO2 Program level; Indirect - Survey

Description of Measurement Tool: Surveyed students about experience in the Math Study Hall. The survey focused on the overall quality of instruction, study skill improvement, recognizing different types of problems due to help in MaSH, and strengthening problem solving techniques. Students answered no improvement, little improvement, or great improvement.

Criteria for Success: Individual & Collective Student Criterion: Individually, success was rated as little or great improvement. Collectively, success is defined as 70% of the students reporting little or great improvement.

Cycle of Assessment: This outcome is assessed every year (course only offered in Spring).

For this report, the data was gathered in Spring 2014, collated, analyzed, reported, and discussed in Fall 2014, with recommendations implemented in Spring 2015.

Who is Responsible for Assessment Activity?: The Math Study Hall Coordinator.

Findings for Math 203L - SLO2

Summary of Findings: Strengthen Math Study Skills: 89% (39% little improvement, 54% great improvement)

Overall: 89%

Results: Criteria for Success Achievement Status: Met

Analysis of Findings: Looking at the data, most students improved their study skills. This shows the Math Study Hall is effective and a great resource for students. The number of students who took the survey was small.

Recommendations: These results will be sent to current and past Math 203 instructors.

Encourage instructors to advertise the Math Study Hall as a resource for students to improve their learning, understanding, and study skills in their math courses. Continue to provide faculty, instructional assistants, and student tutors to assist students in the MaSH

Overall Recommendations

No text specified

 **Plans of Action**

 **Status Reports**

2012-2013 Assessment Cycle

 **Measurements**

 **Findings**

 **Plans of Action**

 **Status Reports**